



Digitized by the Internet Archive
in 2017 with funding from
CLIR

R. Holmes

1959 - 1964

Species Accounts – Part 4

Erolia ferruginea – *Acanthis* sp.

removal experiments

stomach contents

Mammals

R. Holmes

1959 - 1964

Species Accounts – Part 4

Erolia ferruginea – *Acanthis* sp.

removal experiments

stomach contents

Holmes, R.
1962

Erolia ferruginea

8 June Barrow, Alaska

The birds of this species were seen with a group of 3 ♂♂ Pectoral Sandpipers in a small grass patch (remainder surrounded by snow) on the south side of Whiskey Flough - 100 yards in from Elder Lagoon.

I shot the larger of the two - when was also the lightest in color & it turned out to be a ♂ - Perhaps there were 2 ♂♂ - rather than a pair ??? No call notes were heard - The birds were feeding actively - in the same manner as the Pectoral or Dunlin - picking at the surface of the ground - not probing.

When the one bird was shot - the other individual flew off with the Pectorals - but returned & stood near the wounded ♂ for several seconds - then flew off. It could not be located during subsequent check of the entire area.

9 June 1330. - one individual seen in company with 2 White-rumped Saps & 3 Pectoral Saps - in the wet marshy area so. & somewhat w. (toward the lagoon) from Britton's Area. The bird flew off & landed about 300 yards away - & then moved on toward the north. About an hour later, it was seen again in the very wet

Holmes, R.
1962

Erolia ferruginia

9 June Barrow, Alaska

pond-marsh area 20' W. of Voth Road in the same general locality - it then flew across the road + off to the north - not to be seen again.

The alert posture of the bird is similar to that for Alpenia but the neck ^{appears} longer + so the head is carried higher + the sickle-shaped bill is more pronounced (may be accentuated by this longer-stretched neck). The call note is an often-repeated chi-dip, chi-dip... given in a high pitched - almost buzzy manner - has the quality of a Baird Scp. display note. There was also a zhipp, zhipp... note given on the ground - which is similar to (but high pitched - more like bairdi quality) the Dunlin's zhripp, zhripp.

Also when the bird would land after flying - one wing was held vertically for about half a second - then lowered quickly into the normal folded position.

11 June 2 birds located about 600 yards No. 1 Wahlschlag Slough + adjacent to Elson Lagoon. - Watched for 1½ hours - as they chased back + forth over an area of high polygons + wet troughs - some sedge marsh to the W - just becoming free of snow.

When 1st seen - they were flying by at high speed - low over the ground - emitting a high pitched twinkling note.

Holmes, R.
1962

Erolia ferruginea


3.

11 June Barrow, Alaska

They landed about 100 yards away - One bird going in to a hunched - posture with head extended forward - back + scapular raised. Then was then a flutter + wing -



+ a possible attempt at copulation (!) - Then both took off - flying in a low

long-lasting (2-4 min) flight over the tundra. The birds were never more than 6' off the ground - but covered an area 300 x 200 yards - The flight was not erratic - they flew directly - one behind the other - both birds using a full wing stroke  - but the beat was rapid & could not be considered a distinct display flight (i.e. not butterfly-like or moth-like - etc.) other than a chase. Several times upon landing, the chase went into a hunched posture - usually, however with neck pulled in + down - tail was always in natural

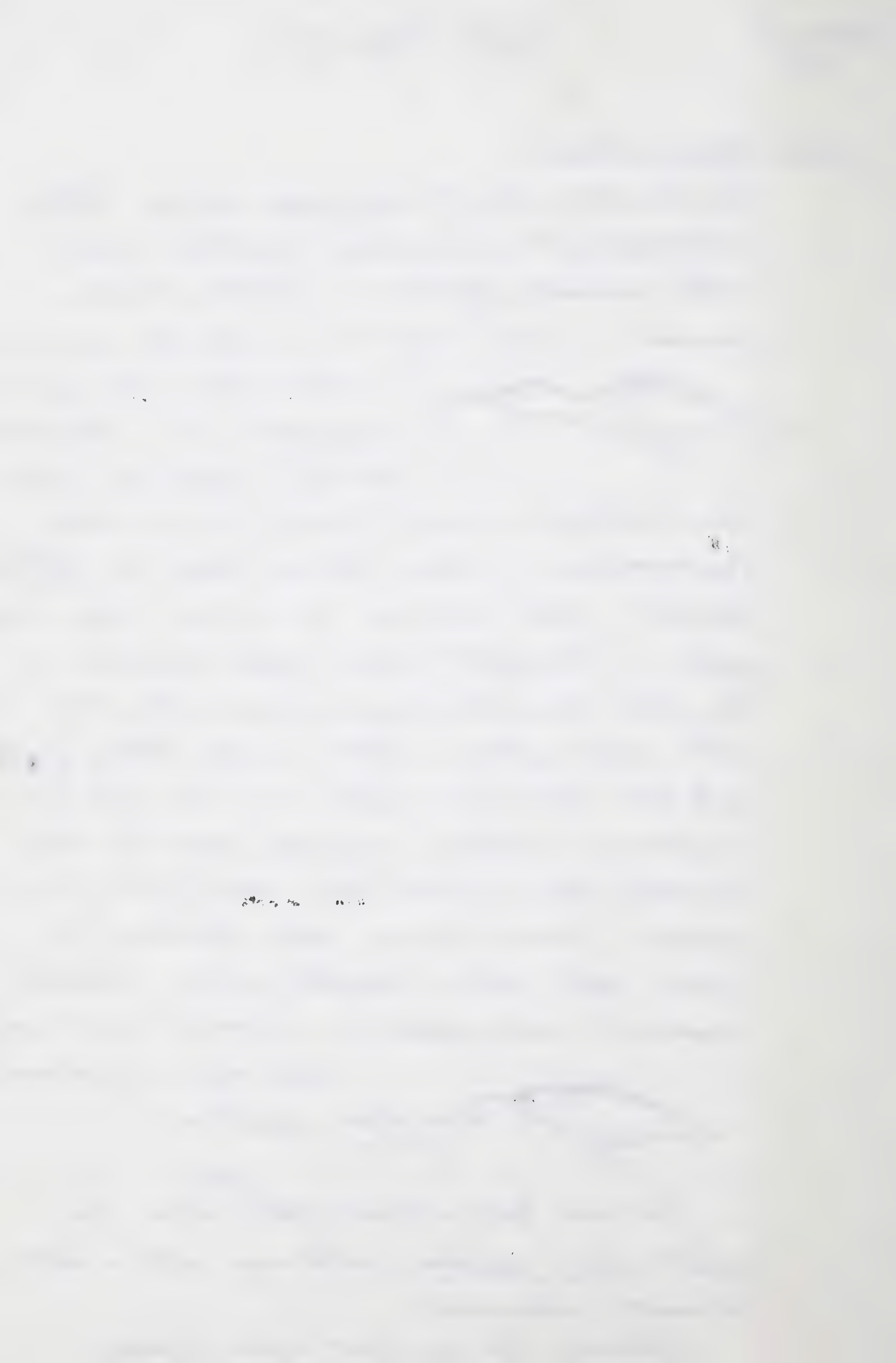


↓ head down
further

position.

The note given is actual ^{of the pr.} chase, was a quiet, high-pitched, twittering note - heard almost continuously.

Usually - the two birds would land separately - at least 20' apart - sometimes 100'.




Holmes, R.
1962

Erolia ferruginea

4.

11 June Barrow, Alaska

Once the chase - set his wings at a wide angle  - just 5' from landing & gave a trill - wheel can best be described as a quiet - red-bon trill (ie not grating - not slow) or similar to the quality of the straight trill of bairdi (ie not the hoang, trill).

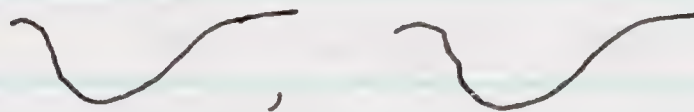
This is
pattern chart
1 FAP


~~trill~~

or a whee-dle, whee-dle, whee-dle, whee-dle
- given for about 2 seconds - only heard twice.

In the air - often just after taking off - give a sharp, loud - wheerb, wheerb - & then the swoosh. ^[4-part note] after landing - a wheerie - as given (maybe center - like?)

wheea, wheea



This is quite similar to the wheerie of bairdi - when disturbed - but the note is given here - towards the other bird - is perhaps a location note or invitation?

Holmes, J.
1962

Erolia ferruginea

5

11 June Barrow, Alaska

In flight, the birds superficially resemble Red Phalaropes - due to the dark red underparts + snow white wing linings. - of course shape, posture, + behavior are radically different.

No wing flapping - seen from either bird.

12 June

The pair was located at 1020 + was watched for an hour or so. The bird would feed - usually within 30' of each other - then the ♂ would make his way - toward the ♀ + this would end in a courtship display (see below). As he would feed - the whine call was given + frequent trills-sequences - given in part or in their entirety

whine

Tchuk, Tchuk - Tchuk - whee-ja, whee-ja, whee-ja, whee-ja,
wheeja - jeerēpa - wheen

same

or

----- eeeee - jeerēpa - wheen

This is the entire sequence - 2 to 3 introductory - sharp notes - 3 - 6 trills notes - a sharp, loud, musical jeerēpa (whether of earlier notes) + then the whine was given. This entire sequence is given on the ground or




Holmes, R.
1962

Erolia ferruginea

12 June Barrow, Alaska

aerial
display

on the wing. The ♂ made occasional short flights - flying low over the ground - again never more than 6' above the ground - flight was with full wing beat but in two cases there seemed to be a slower - more deliberate - stroke - which may have been the aerial display. Once - as the bird flew - it was gliding a few feet above the ground - giving the wet wings held slightly up  - & two sequences of fast vibration⁽²⁻³⁾ were given - at the same time - the whistle note was uttered several times. - Then the bird landed. However, no aerial display - with quivering wings - etc has been seen.

The ground courtship consisted of the ♂ raising one wing toward the ♀ - then both wings, raised - head held up - tail slightly down & fanned out:



see left diagram - wings are held at greater angle & the upper joint is bent so tip extends out.

Holmes, R.
1962

Erolia ferruginea

12 June Barrow, Alaska

The ♂ would start out behind the ♀ - or facing her - but the two birds would walk back & forth in a zigzag fashion - sometimes in front, sometimes behind the ♀. - thereby showing the white rump. She would then fly off - he would follow - sometimes giving the call in flight - both land & feed. No wings - or were seen upon landing - [only prior to the ground courtship & in the courtship display].

No long chasing was seen today - the birds would just fly 50-100 yards at the most - settle & feed. The ♂ often stood & fed in the hummocked pasture with scapulars & back feathers raised - head lowered - but not extended forward. Several times he sat into a depression - with tail and pointed wings pointing up - usually he then stood up & walked off - but twice he was seen to stay in the cup for at least 30 sec. The tail - being moved from side to side.

A copulation, or at least an attempt was noted - when the ♂ was standing on the back of the ♀ - with his wings quivering - He then jumped off - into the air - flew 10' - began feeding. This took place in the high, black-topped polygon area - No. 1 the main depression - sea was later -

i.e. like
C. aeneus

nesting

copulation
attempt

Holmes, R.
1962

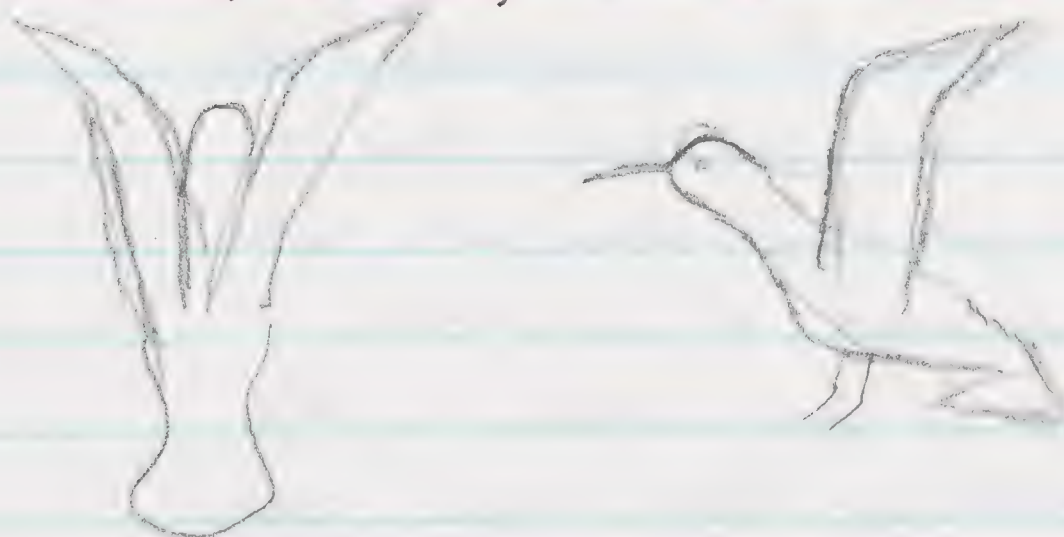
Erolia ferruginea

12 June Barrow, Alaska

In the afternoon, Pitelka and I returned to the Elson Lagoon site & quickly located the pair in the same vicinity as in the morning. The birds were going through the same routine as described above - feeding occupies $\frac{2}{3}$ of the time & is interrupted by short courtship performances by the ♂, - often followed by short flights; chases of Dunlin - or in the case of the ♂ - brief stops to give the song, or the whine note.

1) Courtship

a) Ground . as described previously but with wings held at a greater angle with tips flaring out at a 60° angle. The



head is held up & the tail depressed & broadly fanned. The male saddles in front of the ♀ and sway back & forth - Each time this was seen - the ♀ was observed to dash at the white-rump - or at least pick or thrust its head in that direction. In several cases it

chase Dunlin

courtship

Holmes, R.
1962

Erolia ferruginea

9.

12 June Barrow, Alaska

went beyond the rump + the ♀'s head was under one wing before she withdrew it - i.e. short past the rump along the flank of the ♂?

This courtship sequence is usually started with a wing flash by the ♂ to the ♀ - when she is just inches away - then he raises the other wing - lowers tail, etc.

song? - twitter (?) - see F.H.P.

~~the animal~~

Also, the male is frequently in his hunched-over posture - even while feeding. As he feeds along - he would suddenly sit into a crouch, raise his tail end, then start walking again. Often he would run in hunched posture - like a mouse-run, to a particular cup, settle into it - go through the nest scraping - when tail + wings are waved back + forth in the air with the white undertail coverts flashing. This was noted in at least 4 places - within a 50' diameter. In one case, after the nest scrape, the bird stood up, picked at several pieces of grass around the cup + picked them up in

And

nest cup

Holmes, R.
1962

Erolia ferruginea

12 June Barrow, Alaska

the bill & tossed them to the side (not with the sharp toss seen in the species - where the grass is dropped into the cup at the side of the animal) but more off to the side. The bird then walked off, hunched over. In another nest cup, the bird was facing away from us & the feet were being used actively to dig out the bottom of the cup - several pieces of vegetation (moss?) were thrown into the air by the rapid scratching motion of one foot & then the other.

It seems that this nest cup-sitting & nest scraping is all part of the ground courtship display. The ♀ was always in the vicinity but usually, at least 50' away. The ♂ was very noisy during the nest cup sitting - once giving the trill phase (5 in 8 sec.) in succession for 2-3 minutes - ^(one of 23 units before pause) with short pauses at irregular intervals. (see Pitelka - for more quantitative measurements). At the end of this a couple of whines were given, the bird stood up - walked off (hunched).

The song is given on the ground as well as in the air & is part of the courtship - since it does not seem to be part of concerned with announcements. It has been characterized before - but a new rendition - ~ version is presented below.

→



Courtship
&
Nesting

Holmes, R.
1962

Erolia ferruginea

11.

12 June Barrow, Alaska

LONG
The song starts with several (1-5) introductory notes ^(may vary - pitch ~) - Tchuk; This is followed by a ^{musical} trill-like call - wheeja  which is repeated 3 to 7 times. ~~Then it follows~~ (Then, it shudders, would sound like the motor-churning of the semi-pal sdp - & when the bird in the air gave a long sequence // then it was very pusillus like). This is followed by a series of 4-5 notes which are high pitched & very musical ta^{ta}-tee^{tee}. & then the whine: whaa . This is the complete song - the introductory notes, the 8 ms - song phrase &/or the whine are sometimes eliminated.

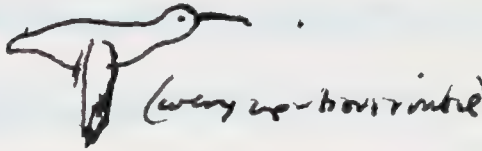
AERIAL COURTSHIP: Long flights seen yesterday are part of this. Today there were not noted (except 1 - just before we left the area the birds flew no. into the far edge of the high poly-gons). Short chases by the ♂ of the ♀ were seen about 3 times. The ♂ flew just behind her - at the same level above the ground (4-6'). The flights are generally fast - not erratic but the birds severer widely over the tundra, usually landing several feet apart. Once while in flight - the ♂ made several fast wing beats, catching up with the ♀ then set its wings (horizontal) for a brief time & gave 3 of the musical trill notes. In doing

Erolia ferruginea

Holmes, R.
1962

12 June Barrow, Alaska

This, the head was pulled up + the posture was the same as the other Erolia (e.g. agave, bird) in their aerial announcement

Also in the flight - the bird (♂) would fly slightly slower than a normal flight - with more deliberate wing beat - still using the full stroke -  - but just slowing the pace. This was different to debut - but was observed in several instances.

When the birds landed, no wing-flashing seen. Twitters + song were both given during aerial courtship.

2) TERRITORIAL ANNOUNCEMENT - DEFENSE +/or AGGRESSION

- No obvious displays noted - due probably to the fact that there are no other birds of this species nearby. However, the ♂ did chase a ♂ (displaying) Dunlin 4 times. Each time - the Dunlin was feeding near the Curlew Scp - the latter would hunch (tail in normal pos't) + run after the Red-back - both taking flight - the Curlew Scp in pursuit - giving the twinkling-twitter - as they flew off - erratically - over the tundra. Once they were 100 yards SW of the central Curlew Scp - the ♂ turned + came back - flying swiftly + low to the ground (3'), landing somewhere near the ♀. On the return flight - he once



Holmes, R.
1962

Erolia ferruginea

12 June Barrow, Alaska

gave the "slow flight" & the song was uttered. -
so this could be involved in some degree of
territorial or aggressive action. ^{(b) This vibration from terr. encounter + song given to E. ferruginea.}

At times the ♂ would interrupt his feeding
to give 1-6 of the whooes & in one
instance 24 were given - 1 every 2 sec - in
succession. (These are produced by the bird
taking in a large amount of air - ∴ putting it
up - then making the sound in the exhale - ∴
deflating. This pulsatory effect is quite
noticeable - since the white rump is put into
view with whoos & the sinker below the body ^{first}
sequence on exhale). In giving the whoos - the
bird is in an alert posture - usually - with
head up - but not accentuated as in
some of the Rurilin displays.



Once as the bird moved in close
to us - acting rather disturbed & nervous -
(just after leaving a nest cup) - it gave a
loud wick, wick, wick - whoos in very
rapid & the alarm note a disturbance
not of the Rurilin. As the bird came close
to us, it remained in the hunched
posture, acting nervously.

The ♀ once gave a loud - beede-beep
or cheer-beep - & then resumed feeding. This

where
freq

alarm

♀ call

Erolia ferruginea

Holmes, R.
1962

12 June Barrow, Alaska

was heard once again just prior to a flight.

The musical phrase of the ♂ can be described as

musical trill - whee - tee - ti - ti - dee - whee

13 June - Pitelka & I returned at 1400. Spent 2½ hours searching for the pair. Not excellent conditions for search, & heavy rain, & no birds were located. Either they have moved off - & this courtship was performed during migration or a pair of turnstones with a nest in the same localized area had driven them off. However, the day before - no interaction had been seen between RT & the Sops.

The area inhabited by these birds has been a well developed polygon area with moderately deep troughs - grass - terry cover. Just to the north were high - blue-topped polygons - which were used occasionally & were flown over in chases. To the south were open flat fields of grass tundra with little polygonization. The area occupied by these birds was roughly 200 yards by 100 yards - but on the north - chases exceeded these boundaries. The local area was 100 x 200' - where most time was spent.

Holmes, R.
1962

Erolia ferruginea

16 June Barrow, Alaska

Hines & I located several birds in the same area near Eism Lagoon. At least two pair (one with a lighter ♀) and a single bird (probably ♂ - dark red in color) + possible another ♀ - very whitish were seen. Two birds were first seen - then disappeared. The 2 pair + the lone ♂ were feeding about 100 yards apart - 300-400 yards south of the previous - count on - at the edge of the marshy, low - center polygons. One pair (looked like the one previously watched) were followed for about an hour. The birds fed along the polygon troughs + ridges. Once they stopped - sat - ♂ put head on back + bill tucked in scapular - lasted 5 minutes - then preened + continued feeding. No courtship was heard or seen - no wheeling, no hunched posture - no chasing - however, both birds remained together - never strayed more than 3 yards apart. One flight was noted - when the two birds took flight as a pair flew towards them - then they flew behind him in a semi-circle - finally settling down + feeding again.

This pair eventually flew off to the north - the ♂ behind the ♀ - giving the twinkling hover + in doing so - passed the other pair - who did not react in any way to this other pair. At the time the chasing

Holmes, R.
1962

Erolia ferruginia

16 June Barrow, Alaska

Birds were 50 yards beyond the feeding area. The ♂ gave the aerial display - many introductory notes + terminal whine. They landed near the central area - fed for about 5 minutes, then closed to the north - in rather an erratic flight - finally landing along the bluffs - 200 yards N. of the high polygons.

Peterson & I returned in the evening + 1 pair (with a "light" ♀, was located feeding about 300 yards S. of the central area. Soon after they were located they took flight - given north - landed near the central location + there was a great flutter of wings - behind a polygon - may have been copulation + then they flew off a long distance to the NW - landed 200 yds. N. of the high polygon area. Later they were seen flying west - into the marshy country.

17 June

The light pair was noted feeding about 100 yards S. of the central area - along the edge of the marsh area. They kept in the company of 2 Turnstones - which had a nest nearby - & whenever they flew - the Curlew Sps. flew with them. These 2 - probably 1st year Sps. - seem to have the Hocking's point & the only calls heard - were call notes - of the type that introduce the song - chuck, chuck.

Holmes, R.
1962

Erolia ferruginea

18 June Barrow, Alaska

Pair seen about 300 yards west of the gasoline along beach ridge - The whistle waaaaaaa - was heard at 100 yds distance - later the ♂ chased the ♀ with the trumping trumps - upon landing assumed the hunched posture - no other display activity was noted. The pair was lost after about half a hour.

I joined Pitelka at the same area later in the evening. He had been watching 1 lone ♂ & a pair. As we stood there, the ♂ was patrolling a ridge - 150 yds - flying - given the song (or sometimes the note) slightly - standing upright - (but yet somewhat hunched - ie droopy shoulders - not upright alert - as in Africa) - given the cubene call which could be heard 400 yards away at the live plate. As he flew - he would fly low - ~~at~~ 3-4' off the ground, then rise to 12-15' - given the te-ta-ta-ta & the do be dissonant - the cubene was given. Upon descent he would land - continue to give the cubene at 2-3 second intervals

After a time -

The ground (see sec.



Holmes, R.
1962

Erolia ferruginia

18 June Barrow, Alaska

to sev. minutes, - the bird would take flight & return to the other end of the ridge. Besides the where-oh components 1 or song - the variable introductory notes - the 'juicy' - two parted trill (cheer-ah) - was given - several times in succession.

The other ♂ was busy attending the ♀ - he remained in the hunched posture - running fast - then stopping to feed & running again. For much of the time - the ♀ was not to be found - but several times there was a chase - with the ♂ giving the twist: Once the ♂ - giving twist - flew to vacant / the patrolling bird - landing nearby - it assumed an agg. posture with head forward & down - pulled in the body, wings down, tail drooped & spread - scuttling toward the other bird which immediately took flight - The other bird returned to the nest of the ♀ & continued feeding. This was the only territorial encounter noted.

This pair consisted of 2 well-matched mature ♂♂ & a rather dark ♀. The habitat was a smooth grass-feeze tundra - been patrolled by the lone ♂ & a wet lowland - pine spotted marsh - where the pr. was located.

Ground
aggression

Holmes, R.
1962

Erolia ferruginea

19 June Barrow, Alaska

In the morning - Pitelke & I could not locate the pair. A heavy wind was blowing - making hearing difficult. In the P.M. Sullivan did not see the bird along the beach ridge area.

22 June - Pitelke & I checked the beach ridge west of the gasoline. After an hour - we finally heard a whistle note & located a pair further north - on the high polygon - 200 yards so. of middle salt lagoon. The ♂, soon after we saw him, fed up to a low grassy mound - & settled into a depression, giving a nest cup display - with tail & pointed wing status into the air & moving them back & forth. After 30 sec. - it stood up, walked off feeding. The ♀ could not be seen in the immediate vicinity. Later, she was seen to the west.

nest cup display

The birds continued to feed, the ♂ occasionally running in a rodent-run manner, but back feathers were not ruffled & there was less of this than in previous sightings of courting pairs. The ♂ made several short, low flying flights - giving the full (aerial) song or parts thereof. Also, the doublets were given infrequently from the ground.

song from ground

When the ♀ was last found, she was feeding

Holmes, R.
1962

Erolia ferruginea

22 June Barrow, Alaska

along several polygonal troughs & finally made her way toward the ♂ which had been doing a post-cop display for about 60 sec. - She walked up to him, stood beside him for several seconds - He stopped aside, - ~~but~~ but kept tail cocked, head half way forward, & stood only a couple inches away, while she appeared to stop with the cup-turn in several directions & finally - more off feeding. All the while the ♂ was the with tail cocked & giving the doublets. After she left, he also resumed feeding activity. Later, but bird flew to east-100 yards - ♂ giving trumbling trills & displaying just before landing by rising up to 10' in a gentle arc & giving the ti-ti-ti-dee & whine as he came down & landed, with wings held up for 1/4 second. The ♀ landed 30' away - The ♂ made her way to her - giving two short doublet sequences & ^{1 whine-ti-ti-dee} upon reaching her, made two complete circles around her (almost touching her), giving two whines, finally stopping & standing beside her - but birds remaining motionless for about 30 sec. Then he turned, jumped onto her back - stood there with vibration wings

11:15 AM

arrival flight & landing


Holmes, R
1967

Erolia ferruginea

21

22 June Barrow, Alaska

for 30 seconds - abdomen depressed toward
the end / This time + possible copulation -
[but doubtful!]. He jumped off - & both
birds remained motionless for a second
or so. After several minutes of feeding,
they both barked & preened at a nearby
pond. [after copulation - gave tri-tu-tu-dee-tween &
2 whistles]

The ♂ made a long display flight,
flying up at a gradual angle -
but eventually reaching an altitude of
150' - giving the song - but flying as in
normal flight or occasionally with
a slightly slower wing beat (like
barids) circling once twice +
then flying back toward the polyg-
ama - setting his wings horizontal
(which stood at 100+ feet) + gliding
down the ground . The area
covered by the flight must have been 10 ±
acres. Once while it was flying
high - a sequence of doublets was heard +
the song he glided in - The whole song
was given. One other flight of smaller
distance was noted - when he flew south
about 300 yards + apparently landed
on the edge of a bluff. He returned a few
seconds later - singing the song.


Holmes, R.
1967

Erolia ferruginea

22 June Barrow, Alaska

Apparently long, high display are given - This may have been in response to another bird of this species - since the area to which he flew was new when a pair was noted several days ago.

As the pair was feeding, the ♂ again gave a weak nest cup display, consisting of a standing in a depression - raising angled tail & folded wing tips & then turning 45° stopping for $\frac{1}{2}$ sec - turning another 45° - etc. - no settling or waggling was noted.

Both birds fed a - finally or I should say suddenly the ♀ settled into a depression, 1st standing & then sitting - with tail & wing tips in the air - moving in several directions. By this time, the ♂ was standing 3-4" away with tail raised, wings may have been slightly dropped - head forward but not horizontal with the ground  - gave

doublet (all that we could hear was one or two sequences of doublets - but bird's body was moving more frequently - & there may have been more vocalizations). After about 45 sec,

the ♂ moved off - running in hunched posture - feeding - running again. The ♀ remained in the cup for $2\frac{1}{2}$ minutes - during this time, she picked pieces of grass

Holmes, R.
1962

Erolia ferruginea

22 June Barrow, Alaska

or sidg from the edge of the nest cup throwing them to the side (both - right - left - usually alternated) & into the cup. At the end of her stay in the nest - she stood up - flew off - both birds again feeding. This is the best indication to date of nest-building - perhaps the ♀ chooses the actual site for the eggs & does the building of the nest cup - she finishes a cup started by the ♂ (although - the ♂ had not displayed any where near where she was working - during our observation).

The frequency of whines was low today - not more than 5-7 were heard during the 1½ hours while we were observing. The doublet phrases of the ♂ are more musical & rhythmic - not as distinctly two-parted as some of the songs heard earlier, i.e. at Eisa Canyon.

Alarm note - whit, whit - whit, ... given twice - I gave it once after Styr, by us & landing 20 yards away. - she then ran off - feeding (note given after landing). Later ♂ - gave one note while standing - a poly-syllabic - apparently in response to a Pomarine Jaeger - as it flew towards the bird & as the jaeger flew on the ♂ crouched - but continued given the note - at 10 sec intervals (i.e. slower than before at 2.3 sec intervals).

alarm note

Holmes, R.
1962

Erolia ferruginea

27.

22 June Barrow, Alaska

Pitelka & I returned during the afternoon but the birds were generally inactive - spending most of their time feeding or - one case - sleeping - (or resting) on a polyglets - at which time we could approach to within 10' of the two birds.

23 June 0530 - 0730. Weather clear - light wind. Recorded songs (1) of Curlew Sandpiper. ^{The} Birds at this time of day were very quiet. The ♀ was only seen once - when both birds flew - heard no Herring note. Later the ♂ chased a Baird Sdp. by following behind it - in an erratic flight - giving the twitter - after flying about 300 yards - he turned upwards ^(~70°) made a large arc & leveled back toward the central area - gliding on outstretched wings during most of the return flight & giving the song in its entirety. He again chased a Baird but only for a short distance & the returned flying normally - giving the song (on tape). Note from yesterday - the bird gave several bairei - but seemed to pay no attention to olyria or parilla. Also Turnstone were frequently present & no attempt was made to chase them by either member of the pair.

Holmes, R.
1962

Erolia ferruginea

23 June Barrow, Alaska

Another ♂ was found - about 100 yards east of the beach ridge (curry-magnetic station) & 200 yards so. of the sea-plane landing lake. It was in an area of small ponds & moderate polygonal ground - The whistle was heard several times from a distance & the ~~the~~ part of the song (doublet) was noted. During the next hour the bird was watched - once it chased a bird - both birds flying close to the ground - the Curlew Sdg. giving the harsh note. The chase lasted only about 30 sec - the C. Sdg. returned to a mound - gave several whistles & remained standing quiet for several minutes. In the field & after half an hour - it flew off to the so.-w. - at which time I lost track of it [it was not very far - but was not found during a canvas of the area afterwards]. When I ^{1st} found - thought I saw - 2 birds ^(C. Sdg.) chasing - but I am not sure.

25 June After waiting for 10 minutes in the central activity area on the beach ridge - I heard two whistles from the ♂ - who was further to the west.

Holmes, R.
1962

Erolia ferruginea

25 June Barrow, Alaska

He was flying east & landed near the orange stakes - then started & flew. When a bird flew up nearby, he followed, flying close behind the other individual for about 50' - then turning away, gliding & uttering 6-8 doublets & the musical 4-parted phrase - before returning to the chase - Both birds climbed to about 80' - & flew off to the SE & out of sight. Presumably the Curlew^{Salp} landed - but not - for he did not return to the area which I was there (another 10 min.). And as the two flew off - the Curlew made a circle in the air - gave 3-4 whistles & then continued the chase. The ♀ was not seen during the half hour spent in the area.

26 June - 2 birds (at least 1 was definitely a Curlew Salp.) ~~chasing~~ flying together - last are Regulus - circling meadow lake & crossing the beach ridge near the W. row of beaver antennae - moving No. - & finally landing somewhere between the P.O. site & the magnolia statia(?). The ♂ was not seen again during the morning (except two where - while 3 uttering & singing he heard?). After sitting - he continued for 20 min -

Holmes, R.
1962

Erolia ferruginea

28 June Barrow, Alaska

The body + flutted, tail depressed + fanned - The run-off through the polypropylene troughs - giving a squeaky call note. She returned once + sat on the eggs - while I was standing near the wheel - 40' away.

29 June Pitelka, Holmes, + I returned to nest #2 at 0900. The ♀ was on the nest and did not flush until we were within 6'. The distraction display consisted of fluttering 1 to 4' in the air - while we were near the nest. If we turned away + appeared to follow her - she went into the rodent-run posture as described above. No wing-flapping or violent shaking ~~was~~ as seen in birds was noted.

If we returned to the nest, she would return fly into the air, hover on beaten wings while just 2-3' off the ground. Finally - running around + twice sitting on the nest - while we were just a few feet away - very broody + paid ^{less} ~~no~~ attention to us. - than other calidrine do. Photographs were taken by Pitelka + R.

30 June

Nest #1 EMPTY at 1330. No sign of the birds.

Display cage - made by ♀ checked - was fully lined - 3' - diameter - on small polypropylene among relatives tall + dense vegetation.

Nest #2 - ♀ incubation - allowed close approach for photos.

Holmes, R.
1962

Erolia ferruginea

3 July Barrow, Alaska

1115-1120 - checked nest near Wohlshlog
- ♀ was still incubating. She did not
fly until I was 6' from the nest - &
at this time - she flew up in front of
my face - hovering 3-4' off the ground
- giving the loud - annoyed squealing
sounds. As I walked off - she
gave - rodent-run or describe
previously - but the time would
fly 6-10' in air & keep ahead
of me.

4 July 2000 - ♀ not in nest & was not seen
during 5 minute search - but eggs
were there & warm - so she probably
was off feeding.

6 July 1400. ♀ was sitting in nest - she was not disturbed

8 July 1100. Nest #2 - Gone - no sign of ♀ & young
eggs. Returned at 1400 - walked around
the area - but nothing! With the number
of jaegers around (Parasites - L-t.) -
the chances for predation being the
reason for the loss is great. Almost
certain they would have hatched by
now. Nest cup with no sign of egg &
young.

Holmes, R.
1959

Micropterna himantopus

9 August Barrow, Alaska

Three birds were seen on Footprint lake and one was collected (#185). The birds were just changing from their summer to fall plumage with a mixture of reddish grayish plumage. The long legs and white upper tail coverts are diagnostic. The three birds were seen feeding among a group of 13 Pectoral Sandpipers.

21 August Barrow, Alaska

One seen among a group of 3 Pectoral Sandpipers just no. of Voth's Area. They were feeding among a cluster of Arctophila - filled polygonized Pools.

Holmes, R
1963

"Micropalama" himantopus

7 June Barrow, Alaska

1 bird with flock of 14 ♀ pectoral sh. - feeding in marsh troughs along Eismiluff - half way between Wohlshlag & Eismil lagoon.

The bird was larger than the ♀ PS + grayish in color - more like baudi on the back. Legs were long & in flight they projected beyond the tail - also white upper tail coverts (possibly white base to tail) were conspicuous.

The bird fed by probing to bottom of water in troughs or jabbed shallowly into the sod surface, as the pectorals were doing.

One call note heard was a relatively deep ^{or RRRRR} Rau-erk-erk ———. The last two phrases were sharp. Later, when flushed by a ♂ PS (chasing another ♂ PS who was nearby), the stilt gave a very sharp, metallic - kik, kik.

Micropalama
himantopus

is now

Calidris himantopus
(stilt sandpiper)

per AOU 1998

Holmes, R.
1966

Tryngites subruficollis

25 Aug Barrow, Alaska

One adult? seen & collected
along the top of the beach
ridge, west of the magneti
station

Holmes, R.
1962

Tryngites subrutticollis

23 June Barrow, Alaska

1 individual seen feeding with a
flock of pectorals in the marsh - ~~low~~
of the B.R. + 40 yards west of Elson
Lagoon.

Holmes, R.
1959

Limnodromus scolopacea

7 August Barrow, Alaska

One seen between Skrit Slough and Wohlschlag's Slough. feeding in soft mud with other sandpipers.

18 August Barrow, Alaska

A flock of 11 was present on the south-end of Freshwater lagoon. They were feeding in the shallow ponds + mud just 2 feet from the lagoon. They were all molting (body). No wing molt was noted.

19 August Barrow, Alaska

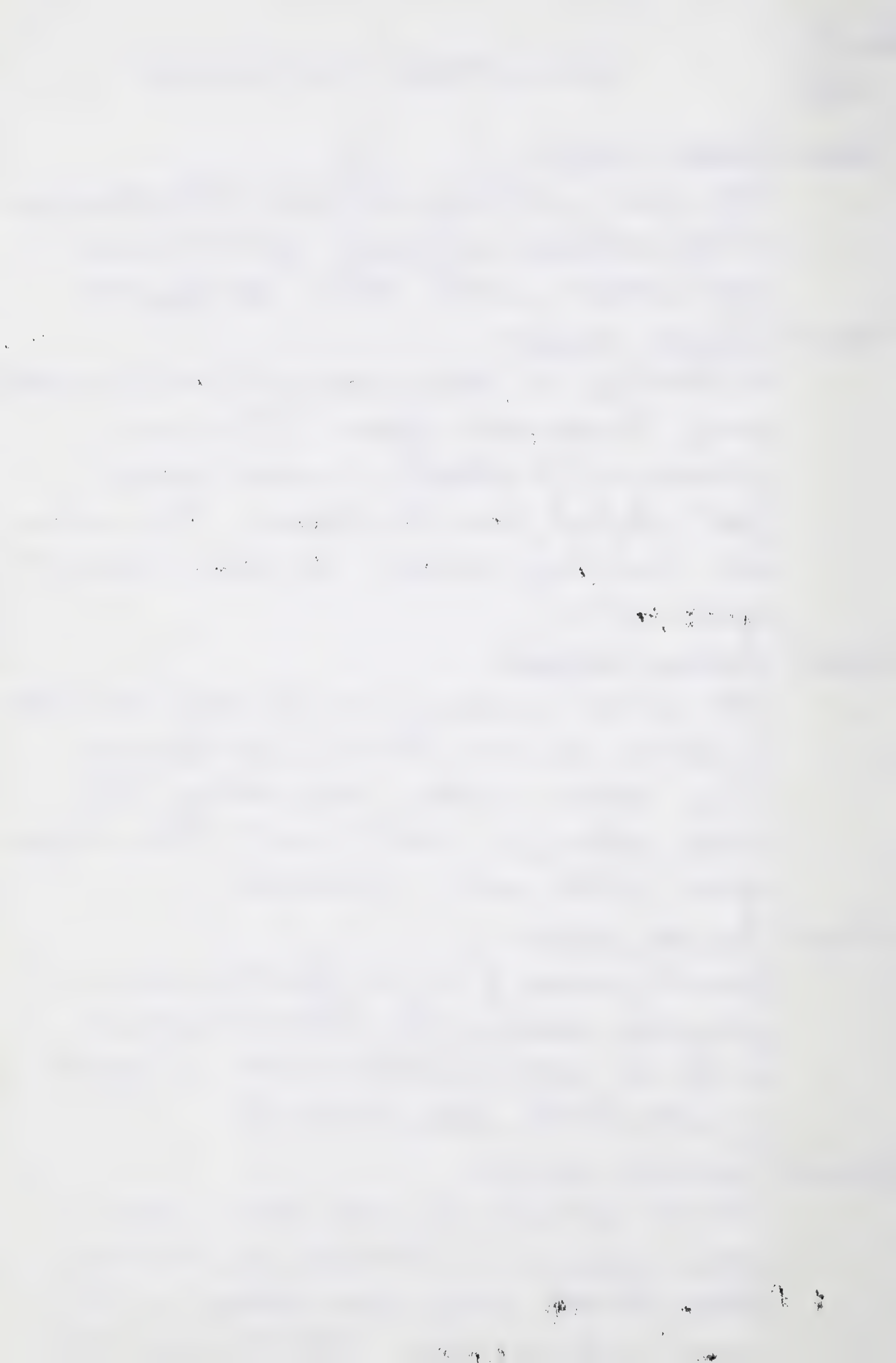
150 were present on Footprint Lake feeding among Red-t. sandpipers. They were also molting the body plumage but not the wings. Four birds were collected.

21 August Barrow, Alaska

Small groups of 10-15 birds were feeding among the flooded ponds in the so. half of Footprint Lake. A total of 200 birds was present.

23 August Barrow, Alaska

Small groups of 10-15 birds were seen again on Footprint; however, less birds were seen today with an estimated total of 100 being present.



Holmes, R.
1959

Limnodromus scolopaceus

2.

26 August Barrow, Alaska

A flock of 16 was present on a small pond just so. of Fresh-water Lagoon. Several small groups (10-15) were present between Voth's Area and Footprint Lake, and approximately 250 were on the southern half of F. P. Lake. All those that were seen were feeding among the mud and shallow pools.

27 August Barrow, Alaska

Small flocks of 8-12 birds seen east of the Beach Ridge and west of Clean Lagoon. A few individuals were flushed from the sides of some of the pools. About 50 birds were seen during the entire morning.

28 August Barrow, Alaska

Two groups of 10-15 were seen west of Footprint Lake - feeding among small pools and aspen areas of sedge & grasses. None were noted in Footprint Lake.

30 August Barrow, Alaska

Three seen north of Voth's Area during the evening.

Holmes, R.
1959

Limnodromus scolopaceus

3

31 August Barrow, Alaska

A small flock of 12 was present along the shore of the creek which drains Vogt's Slough. Large numbers (5-600) were on the south end of Footprint Lake and a flock of 125 was seen on the north end of the lake (on the trip down + on the return trip). This was the largest concentration of these birds seen in this area to date. They were extremely abundant + many more were hidden the grass, so the estimate given above is probably conservative.

Holmes, R.
1960

Limnodromus scolopaceus

3 July Ikroavik, Alaska

Two seen flying near south end of Ikroavik.

3 August Barrow = So. Barrow 3, Alaska

6 seen together just north of So. Barrow 3.

6 August Barrow = Ikroavik, Alaska

A flock of 64 was present in the southern half of Footprint Lake.

8 August Barrow, Alaska

Two seen on a pond on Gostine Ridge

13 Aug - Small flocks seen in Central marsh. Most were immatures.

15 Aug - None were in Footprint Lake, but a flock of 16 was seen just west of the lake near bar pond.

22 Aug - Flocks of 20-30 are still present in Central marsh, but the birds are generally not very common (W. J. Maher).

25 Aug - A group of 12 seen on the ponds west of Fresh Lagoon.

30 Aug Three birds seen together in Central Marsh.

Holmes, R.
1961

Limnodromus scolopaceus

9 June Barrow, Alaska

2 indiv. seen feeding with a flock of Pectorans
in the NE corner of central marsh.

10 June - 1 seen flying SE over Voth's area.

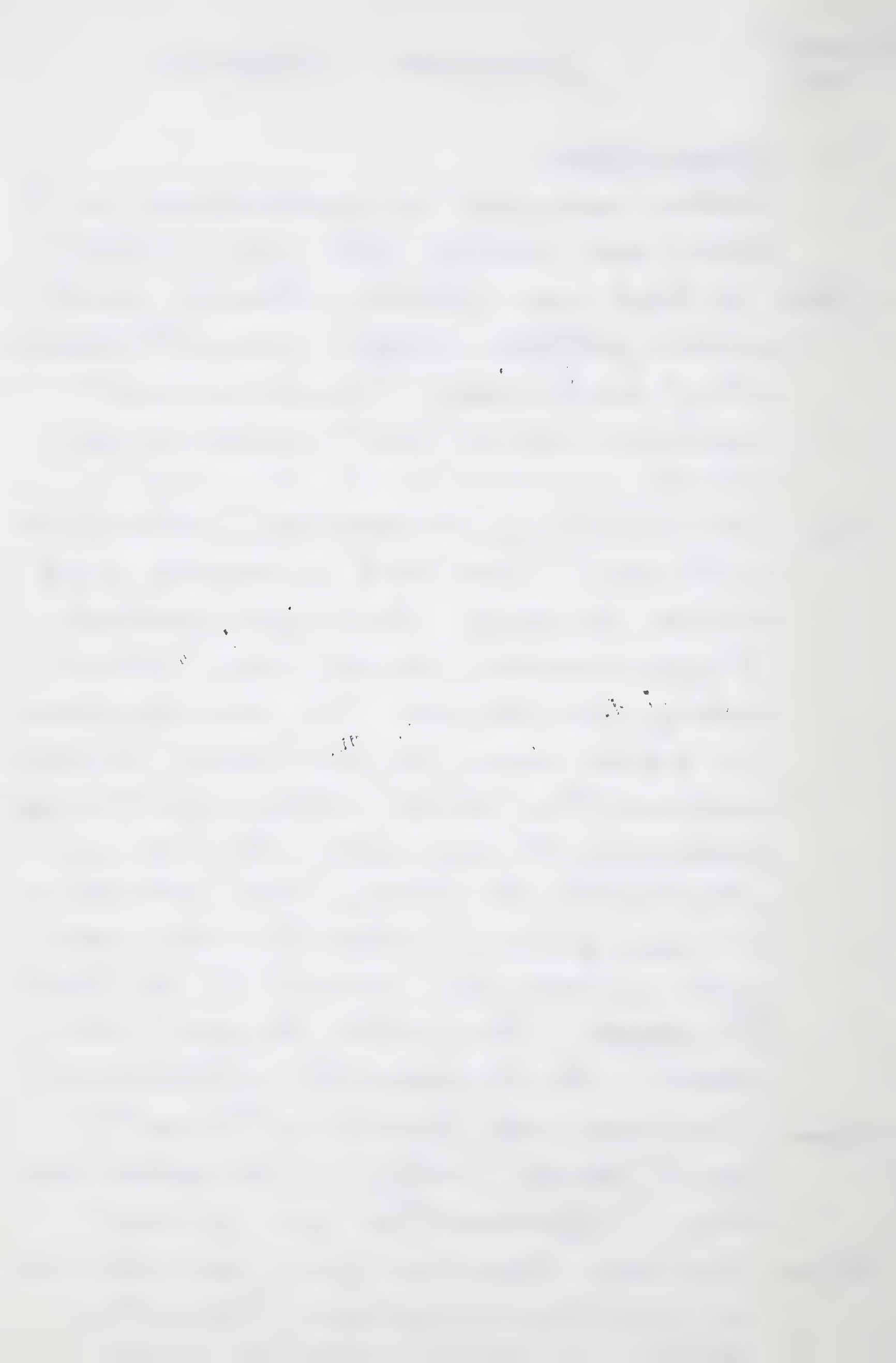
11 Aug 3 seen in central marsh - near the
magnetic station + then 6 seen
further west in the marsh - S. of AACs.
all appeared to be immatures.

Holmes, R.
1967

Limnodromus scolopaceus

Barrow, Alaska

- Mullen saw & shot one individual in the
dune area behind APL (see D.A.M.#1)
- 8 June - 2 birds seen feeding along a water-
filled polygo trough - near Elson Lagoon
(No. of Woblesbles). The pair was not
collected (By bill length - seemed to be
♂ & ♀).
- 9 June One bird displaying over barrel ridge (between Britton
& Voth area). Call note in display quite
similar to griseus but higher pitched.
It gives several liquid notes & then a
twanging trill-like call. The form of the bird
in display was to fly in circle - widening &
widening & then gliding in down-curved wings -
while giving the call notes. There was no
flight to 30' the gliding back to the ground
as seen in griseus - but the bird would
glide in circles at about 75-100' above
the ground. This lasted for just a few
minutes & then the bird flew off to the west.
- 10 June Two birds seen feeding at the north
base of barrel ridge - in the marshy area
there. - Appeared to be pr - by bill.
- 11 June Pair seen near Elson Lagoon - No Woblesbles -
one was heard displaying (annually)
later. - probably was one of the
two seen previously.



Holmes, R.
1962

Limnodromus sclopaecus

2.

16 June Barrow, Alaska

One heard displaying near the beach ridge -
east of the magnetic station.

17 June One heard displaying near Elson Lagoon.

29 June 1 heard displaying on the flat near Treppe
IIA+B - NW of OOD Area.

2 July One heard displaying at south end
of NW 4 areas - Ikroavik Flat.

18 Aug Three flocks - each of about 30-35 birds -
on Central marsh + NW of the magnetic station.
All appeared to be juveniles.

19 Aug 4 immatures seen on the ponds toward
the Point.

21 Aug 4 imm. seen so of Gueline R.

25 Aug Flock of 18 along ponds near Fresh Lake, then
14 so of Foster Ridge.

Holmes, R
1963

Limnodromus scolopaceus

15 June Barrow, Alaska

One displaying on census plot

17 June 2 feeding in central marsh - east of No. meadow lake

22 June One feeding in gravel pond on beach right then flying into the marsh.

26 June Flock of 10 flying E. over BR & EISA marsh - then out over EISA lagoon

29 June 4 along inlet to NW end of Ikroavik

1 July Two separate individuals found feeding - 1 on north side & one on south side of gas line ridge - not far (10 yds) from the 10.0 end of Trough 1 & II. Pitelka had seen them earlier in this spot - may be nesting?

3 July Two ^{over} display - songs were heard in the census plot today. The song is fast & partridge-like in quality - with rhythm following

je-di-di-di - neet - dee

pattern.

7 July 2 flying east over census plot - 1 gave the aerial song.

9 July One on north side area

7 Aug 1 in central marsh

13 Aug 3 in marshy furrow east of fertilizer plots.

15 Aug Flock of 15 south of central marsh. 1 flying over camp.

20 Aug Flock of 6 to 15 - south of gas line ridge & Sec. individuals - well incubated.

Holmes, R.
1963

Limnodromus scolopaceus

7.

22 Aug Barrow, Alaska

At NE corner of central marsh - nearly 150± immatures were feeding - when flushed all flew up together, circled & then landed later - group of 5-20 were seen in the southern sector of the marsh & near the fertilizer plots.

23 Aug - 100+ on central marsh & a group of 12 near fuel tank - on 1 these birds upon returning from a flushing - set wings in downcurved posture & gave 3 sequential loud display song - could not see bird after turn & determine age.

25 Aug Had 18 new AASs - saw scattered small groups - set feeding ridge

Holmes, R.
1964

Limnodromus scelopaceus

- 7 June Barrow, Alaska.
2 feeding near some other in mud flat at
NE corner of central marsh.
- 12 June 1 aerial display song sequence heard
from bar - the bird was somewhere
east of No. Meadow Lake.
- 26 June 1 displaying south-west of Gasline ridge.

Holmes, R.
1959

Capella gallinago

5 June Barrow, Alaska.

1 individual seen in small
exposed area ofundra near the
Base.

Holmes, R.
1962

Steganopus tricolor

[9 June 1962]

Barrow, Alaska

1 collected in Britten's Area. It was probably a 1st year bird - see specimen

Steganopus tricolor
is now

Phalaropus tricolor
per AOU 1998

Holmes, K.
1960

Lobipes lobatus

21 June Kroavik (Barrow), Alaska

1 seen with a group of 6 Red Phalaropes. They were all feeding in a marshy swale in melt off waters near the 2nd inlet into the lake.

16 Aug Ipevuk Lake, Alaska

75-100 present in the lake near the island. They were feeding when a gravel bar which was underwater.

Holmes, R,
1961

Lobipes lobatus

11 June Barrow, Alaska

one seen in central marsh

28 July Gull Lake, 50 m SE of C. Lisbourn, Alaska
50+ seen near the island - The Lake.
most were juveniles.

Holmes, R.
1962

Lobipes lobatus

14 Aug Barrow, Alaska

8 seen on "gravel pond" near Britton's
area in company with 30+ Red
Phalaropes — all birds (of both sp.)
were immature.

Holmes, R.
1963

Lobopis lobatus

15 June Barrow, Alaska

Pair along creek - near 10.4 on shoreline
census plot - feeding

3 July 1 on footprint lobe ponds

Holmes, R.
1964

3 L. obipes lobatus

14 June Barrow, Alaska

1 along north edge of central mound - near head ridge.

20 June 1 in Fresh Lake

25 June 1 in Footprint Lake

Holmes, R.
1959

Phalaropus fulicarius

1.

7 June Barrow, Alaska

Two ♀♀ seen on the lead-feeding actively.

12 June Barrow, Alaska

One ♀ seen in a small ice-surrounded pond - 20 yards behind ARL Bldg.

13 June Barrow, Alaska

2 pr. seen on the ponds just west of the drum area. They were feeding in the shallow icy water. The direction of feeding was counterclockwise.

14 June Barrow, Alaska

2 pair were noticed on the tundra near the west side of Voth's Slough. In both cases the ♂ remained on the ground while the ♀ flushed (or in one case did not settle and continued flying).

15 June Barrow, Alaska

Two pairs seen on pond near dump behind ARL. When they approached each other at one end of the pond, one of the females took an aggressive action and drove the ♀ of the other pair and the turned back and drove off the ♂. The ousted pair retreated to the other end of the pond and began feeding again. After several minutes

Holmes, R.
1959

Phalaropus fulicarius

2.

15 June Barrow, Alaska

They moved down to the other end again and the "redundant" female drove them off again. Apparently the one pair has established some territorial boundaries. The method of feeding was again noted, and the birds moved both clockwise and counter-clockwise.

19 June Barrow, Alaska

Many pairs of these birds are now seen and heard over the tundra. They can be seen on the small ponds or on the tundra itself. Nesting does not seem to be underway yet.

23 June Barrow, Alaska

Many birds seen in the area east of the beach ridge and near Olsen Lagoons. Most birds were females although a few males (paired) were noted. Several cases of chasing were seen where 4-9 females would be fighting over one male. They would all be flying (fluttering) around the male, sitting down and then flying again. Some would try to chase others off but they would usually return. The male would become all excited during these actions and would

fly a foot or two off the ground and hover slightly as if it were trying to shove off the female. The gulls would quiet down when the male would stalk close to a female and now and then struggle up to her. The remainder of the ♀♀ would then fly off or fly a few feet away and settle down again. After several minutes, the "fight" started again.

25 June, Barrow, Alaska

Several large flocks (40-50) were noted in the vicinity of Elm Lagoon. Pairs were also frequent in the small ponds. Females, however, far outnumbered males.

30 June, Barrow, Alaska

From 10-20 females were present on freshwater lagoon. Two pairs even noted in the small ponds, just west of the room.

2 July, Barrow, Alaska

At 1400, about 100 females were present on freshwater lagoon. They were scattered along the strip of narrow water, while feeding and would fly when a weasel came near.

Holmes, R.
1955

Phalaropus fulicarius

4.

6 July Barrow, Alaska

A nest was located So of the drum area and about 50 yards west of A.H.C.S. It was within 6 inches of a small pool of water and was well concealed by the ^{surrounding} grasses. The eggs were four in number and were light green with heavy, large, black or brownish spots near the large end and smaller spots down toward the small end. When the male flushed from the eggs, he gave a distraction display which did not appear to be as elaborate as the other shorebirds. It hunched over with the feathers on the back just slightly raised. The tail was dropped, but not spread and the wings were slightly drooping. This display was given for several seconds and was accompanied by the usual sharp "click" note. Only 6-12 females have been noted in freshwater lagoons during the last few days. None were there during the morning or afternoon today.

Holmes, R.
1959

Phalaropus fulicarius

7 July Barrow, Alaska

Several seen near Elsa Lagoon and near A.A.C.S.; however, they were not present in any numbers. Most birds seen were males.

8 July Barrow, Alaska

Groups of 20-30 were seen - The ponds in Voth's Area. The majority were females, and some had started to molt.

9 July Barrow, Alaska

A male was collected on the trapline in Voth's Area. His brood patch had started to become feathered and he was molting all over his body. The wings, however, had not started.

13 July Barrow, Alaska

The nest in the area near A.A.C.S. hatched in the last 3 days. Three young were seen about 10 feet away. The male became very excited and did somewhat of a broken wing act trying to attract my attention. He would lean and the turn up so that his neck

Holmes, R.
1959

Phalaropus fulicarius

6.

13 July Barrow, Alaska

was on the ground and then flew his wings. This lasted for only a few seconds, then he would fly off and call loudly. The chicks had very large legs and feet and were rusty colored about the head.

14 July Barrow, Alaska

50-75 present in shallow ponds near the South end of Footprint Lake. The majority were females.

16 July Barrow, Alaska

Several birds were seen here and then on the tundra on the beach ridge and Wablosch Slough area. Mostly seen were males which evidently had young, for they were very excited.

18 July Barrow, Alaska

Several males seen just S. of Footprint Lake; otherwise these birds have become quite scarce. Occasional birds were seen along the beach ridge near AHS during the morning.

20 July Barrow, Alaska

Several individuals were seen in

Holmes, R.
1959

Phalaropus fulicarius

7

20 July Barrow, Alaska

Footprint lake among the small ponds and flooded regions. Most seen were males

22 July Barrow, Alaska

A flock of 15 males was seen on the flooded areas of the southern half of Footprint lake.

24 July Barrow, Alaska

Three individual males were seen near the COTT's Area, and a group of 6 were on the beach ridge during the morning.

28 July Pitt Point, Alaska

About 6 males were seen during the hour spent in observation

29 July Barrow, Alaska

A group of 30 was seen in the south end of Footprint lake. These were all males.

31 July Barrow, Alaska

None were seen in COTT's Area or in central marsh or Wohlsehlot's Slough area.

1 August Barrow, Alaska

6 were seen in the southern part of Footprint Lake. All were molting males & imm.

4 August Barrow, Alaska

Three juveniles seen on Freshwater lake. These were collected & saved for Medicine.

Holmes, R.
1959

Phalaropus fulicarius

8

6 August Barrow, Alaska

Groups of 6-20 birds were seen on Footprint Lake. All of these birds were molting; the body was whitish white the top of the head was bluish-grey. The reddish color of the body was still evident in some individuals. Apparently these are immature birds and are now the most common.

9 August Barrow, Alaska

80-100 seen - Footprint Lake - mostly immatures.

11 August Pitt Point, Alaska

About 15 immatures seen on the porch within 2 miles of the base.

13 August Pitt Point, Alaska

6 immature birds were seen today, scattered over the tundra in the small pools, etc.

15 August Pitt Point, Alaska

2 immatures seen, and 1 was caught in trapline T4.

19 August Barrow, Alaska

About 15 were present on Footprint Lake; these were all immatures. Flocks of 100-150 were observed

Holmes, R.
1959

Phalaropus fulicarius

9.

19 August Barrow, Alaska

along the waterfront between the gas line road and the north end of the base. There were just at the edge of the water and were apparently trying to ride out the storm. I would estimate between 1500-2000 were present - all were immatures.

21 August Barrow, Alaska

4 immatures seen in Footprint Lake. No others noted on the tundra, but 100's were present along the ocean edge. All of these were immatures.

23 August Barrow, Alaska

About 600 birds were present along the shore in front of the base. These were all immatures and were feeding among the chunks of ice that were present.

26 August Barrow, Alaska

Three individuals seen in Footprint Lake. One was collected and had begun to molt its dorsal feathers. A flock of 7 were seen flying over middle saltwater lagoon.

Holmes, R.
1959

Phalaropus fulicarius

10.

27 August Barrow, Alaska

1 seen east of the beach ridge.
Approximately 200 seen along the shore between ARC and Murdock. They were feeding in shallow water between 5 and 15 feet off the shore and were feeding in the characteristic phalaropus way - that of swimming under.

28 August Barrow, Alaska

Between 200-300 birds were present along the surf between the base and the turnoff to the gas well. There were all feeding and ranged from being on shore out to 50 feet from shore.

31 August Barrow, Alaska

Three molting (birds) immatures seen on Fritsart Lake.

1 September. Barrow, Alaska

A flock of 12 flying North^{west} along the shore near Middle salt water lagoon.

3 Sept. Barrow, Alaska

A group of 6 flying NE along the shore of the Arctic Ocean (in front of the base).

Holmes, R.
1959

Phalaropus fulicarius

11.

5 Sept. Barrow, Alaska

One flock of 13 seen flying NE
in front of the base. One
dead immature was brought
in from the Tide Station by Ditzler.

Holmes, R.
1960

Phalaropus fulicarius

2 June Barrow, Alaska

2 seen flying over central marsh by Maher

3 June - 2 pair seen in the small, ice-choked ponds along Elson Lagoon between Wohl + Ootyik.

5 June - many flocks of 3-15 were seen between Barrow + the Inuvik River. These were usually seen moving (flying) but occasionally a group would alight on a pond or marsh. Several pairs were seen.

6 June - a pair was seen near Footprint Lake.

7 June - Several pair seen along Elson Lagoon.

9 June - Several pair seen So. of Wohl Slough

10 June - 1 pr. seen Elson Lagoon

12 June - Several pr. seen on the beach ridge + on the west shore of Footprint Lake.

14 June - Several pair seen along the ridges near Ikroavik + Footprint Lakes.

22 June - During the last few days, the number of Phalaropus has definitely increased. As the melt-off waters have accumulated in large marshes, etc., the birds have arrived & spend most of their time feeding. Today several pairs were going through courtship activities, where

Holmes, R.
1960

Phalaropus fulicarius

2.

22 June - Barrow (Ikroavik), Alaska

The female would chase the ♂ back and forth among and or from one pond to another.

23 June Ikroavik, Alaska

Several chases noted today. These involved several ♀♀ chasing a ♂. The ♀♀ were fighting among themselves, apparently, over the ♂. One such case involved 5 ♀♀; all fighting over 1 ♂. There would often be actual physical contact (wing flapping, etc) on the ground, or one ♀ would try to mount the ♂ (? - this is somewhat questionable since it happened so quickly). These encounters were often followed by a chase which would last for 10-30 yards - & then the brawl would start again.

26 June Barrow, Alaska

Phalaropus are still abundant, but now the pairs seem to be mainly concerned with nesting. Chasing is rarely seen except between members of a pair. At this time, the ♂ seems to be more aggressive

Holmes R.
1960

Phalaropus fulicarius

3

26 June Barrow, Alaska

towards his mate, and he will often become excited and will "push around" the ♀. Usually during these periods of excitement the ♂ will mount the ♀ + copulation ensues. Several nests have been located during the past several days. Most of these have been incomplete clutches (see P. telia). One nest was found today at the south end of the beach ridge. It contained 2 eggs, and both birds were present.

28 June Wainwright, Alaska

These birds were fairly common on the tundra near the deer line site. One nest was found, which contained 4 eggs. ♀♀ were still present in small numbers

30 June Ikroavik, Alaska

Last evening on the way south to the lake, flocks of ♀♀ were present along salt lagoon + Voth's creek. In this stretch there were about 150 birds. About 40 were on Footprint Lake. On the study plot, there are still pairs present, but lone ♂♂ are also seen. It seems that in these

Holmes, R.
1960

Phalaropus fulicarius

4.

30 June Iktroavik, Alaska

pairs, the ♂♂ are now the aggressors and become very excited when other birds land nearby. Often they will flutter around + drive off these intruders (both ♂♂ + ♀♀).

1 July - 1 nest was located just south of the 2nd inlet on the plot. It was on the top of the ridge with center a high polygon. The cup was lined with grass, and the surrounding polygon was also grass covered. The 4 eggs were green with dark (black) spots + small blotches.

8 July Barrow, Alaska

The majority of ♀♀ seen to have departed + small groups of these birds are now seen on the lakes + ponds. The ♂♂ are mostly on the nests, + are seen out feeding occasionally.

11 July Barrow, Alaska

The activity of these birds has slowed down. ♀♀ have disappeared now, + ♂♂ are now seen occasionally on small ponds. No young have been seen.

Holmes, R.
1960

Phalaropus fulicarius

5.

14 July Barrow, Alaska

A large flock of 50-60 birds seen on the plot area near 20.3 - 20.4. Most of these were ♀♀, but a few ♂♂ were mixed in. This is the first big flock noted this year. The ♂♂ are still generally scattered over the tundra, but occasionally, several are seen together as a pair or chasing over the tundra. The nest on the north end (the south leg was being incubated, & the ♂ was excited at my presence. There was no pipping that could be seen. No phalaropus young have yet been reported.

17 July Barrow - Ikroavik, Alaska

Most of the ♀♀ have left, and ♂♂ are now the only ones seen. In fact, there now appear to be flocks of ♂♂ on the ponds which were feeding & acting as if they were through nesting. When flushed they ^{usually} fly off & leave the area. No broods have been seen yet by anyone (except 1 possibly in by Mohr). The nest by the pond NO. 1 the waning brood in the broodhouse.

Holmes, R.
1960

Phalaropus fulicarius

6.

17 July Barrow - Ikroavik, Alaska
had been destroyed. Many of them
♂♂ are beginning to molt.

19 July Barrow, Alaska
Several broods were located today
near Voth's Area + Hendali ridge. Some
indiv. were collected, + others were
banded. One indiv seen just north
of Voth's Area was nearly a week
old + was not too far from being
able to fly. The ♂♂ were with
these broods, but they did not
become especially excited when
I was present.

21 July Ikroavik, Alaska
The nest on the north part of the south
island contained three eggs which
were cooed. The ♂ was not
present. ♂♂ were seen occasionally
during the day, but only 1 brood
was found (+ banded).

25 July Barrow, Alaska
Several ♂♂ + their broods were
encountered north of Voth's Area. The
young vary in size from 1 or 2 days
old to almost flying. Several
flocks of ♂♂ were seen in the
larger ponds.

Holmes, R.
1960

Phalaropus fulicarius

26 July Barrow = Ikroavik, Alaska

Large groups of ♂♂ (molting) were seen along Ikroavik. No juveniles were in the group, but a couple of broods / non-flying birds were seen.

29 July - Several molting ♂♂ were seen in Central marsh & slough. Also 2 Sperm young were noted.

30 July - Molting ♂♂ are still present & now flying juveniles are beginning to appear. I noted several of these today on Voth's Ave. and also several partially grown chicks. The ♂♂ do not seem to attend these young birds too closely, since they are often found alone with no adults nearby.

3 August Barrow = So Barrow 3, Alaska

Very few were seen during our trip south (& north again). Only several occasional ♂♂ were noted. No juveniles seen.

6 August Barrow = Ikroavik, Alaska

Small groups of birds seen between the bog & the lake.

Along the shore of the lake (west side), many molting birds were present. These were feeding

Holmes, R.
1960

Phalaropus fulicarius

8.

6 Aug Barrow = Iktroavik, Alaska
along the water edge +
back away from the lake - The
meadow tracks + other areas
close-by. Most of these were
♂♂, I believe. Two 1
Then flying juveniles were
also seen. In Footprint Lake,
there were very few phalaropus.
Two non-flying chicks were
seen. They were attended by
the adult.

9 August Barrow, Alaska
Very few have been noted during
the past 3 days - between the
boat + gas line ridge. There
are usually several along
freshwater lake.

16 Aug Barrow = Cape Lisburne, Alaska
Large groups of phalaropus, presumably
the species, were seen along
the shore between Barrow & Cape Lisburne.
At Lake Iperik, several of these
were seen among the more common
No. Phalaropus.

21 Aug Barrow, Alaska
Most of the birds have stocked up +
left with the exception of a few

Holmes, R.
1960

Phalaropus fulicarius

9.

21 Aug Barrow, Alaska

♂♂ + juveniles still seen in the tundra pools + the lake beds. Flocks are still seen along the oceanfront.

26 Aug Same ♂♂ + mostly juveniles are still seen on the ponds, feeding both in deep water + along the shore.

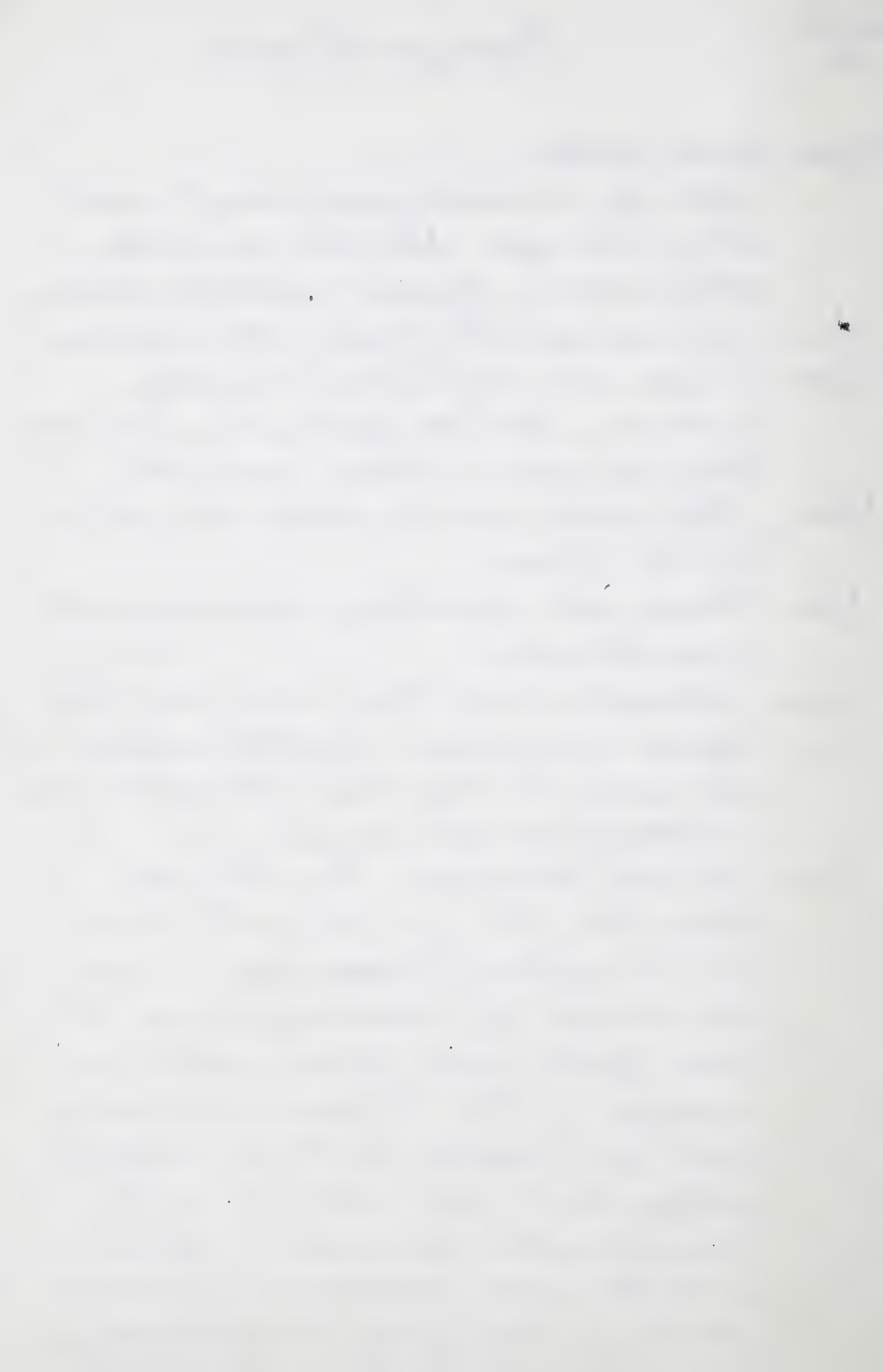
30 Aug About 3 individuals seen today in Central Marsh. Most of the ponds are now staying frozen during the day, making feeding difficult.

3 Sept Several seen near Ikroavik / was in Footprint Lake, trying to find among the frozen ponds.

Holmes, R.
1961

Phalaropus fulicarius

- 3 June Barrow, Alaska
2 pair seen on small ponds along the west shore of Elson Lagoon. Both birds were feeding actively with no apparent courtship occurring.
- 5 June - 1 pr. seen near Elson Lagoon - none elsewhere
- 7 June 2-3 pair seen so. of Britton's Area today.
In one case 2 ♀♀ were fighting over a ♂ - much flying was going on, chasing back & forth.
- 8 June Many birds seen on the ponds near Oath & Britton's Areas.
- 9 June Numerous indiv. & pairs flying around Footprint & near Ikroavik.
- 11 June - Abundant in Central Marsh - where most birds appear to be paired. Very little activity was seen on the ridge - (before - F.A.P. plot). One ♀ collected had only 1 egg over.
- 17 June Two nests found today. One on the east slope of the BR - on F.A.P.'s plot - it was on a dry portion of the ~~ridge~~ ridge - & was surrounded by dead sedge & grass. It was quite well lined with grass & sedge - The 2nd nest was found next to Troughline III B - on a slight polygon top - where it was well covered with grass. A flock of 20 ♀♀ was observed in Central Marsh. Also large number of pairs were still seen together on the tundra.



Holmes, R.
1961

Phalaropus subcariacus

20 June Barrow - Ikroavik, Alaska

See frequently - mostly paired - but
occasional 2 ♀♀ + 1 ♂. Nesting generally
seems to be well underway.

24 June Several small flocks of ♀♀ seen between The
base + Oolupik slough; very few were in
central marsh.

27 June A few birds were seen in the plot - inc. 2
pr + about 3 males. No large
flocks of ♀♀ were noted during the trip to
Ikroavik.

4 July The 1st nest found (near 10.0) in FAP's plot
has been destroyed. A new one was
found with 4 eggs - near (4.1).

7 July 1 seen in the plot (♂) at Ikroavik -
no others seen today!!

9 July None seen in the B.R. - The nest found - 4 eggs
could not be found. 1 ♂ seen near
AACs & one near Fresh Lake. - No others
seen anywhere - no ♀♀ in marsh, etc.

11 July 2 ♂♂ seen on pond No. of Oolupik's Brook.

13 July 4-5 ♂♂ seen during today's travels
to Oolupik slough & Footprint Lake. No ♀♀
seen. Nest in B.R. plot near 2.0 - gone
definitely.

15 July A few single ♂♂ + some small groups of ♂♂
seen in & around Oolupik's area & the
consent plots.

Holmes, R.
1961

Phalaropus fulicarius

- 16 July Barrow, Alaska
No young have been seen this year! A
few ♂♂ again seen - but none seemed
very excited - all were feeding in
Arctophila ponds.
- 19 July - few ♂♂ seen between Wohl. + Oolysit,
but no young were encountered. These
were seen individually - usually in
ponds.
- 21 July 2 ♂♂ seen just N. of footpoint. -
No young yet!
- 23 July - None seen between Camp - C. M., EIS or
Lagoon, Wohlshlag - Oolysit + return.
None seen near insect plots
- 26 July None seen on the trip to Ikroavik. Still
no young seen this year.
- 28 July - None seen along the coast to Cape Liibourne.
- 30 July Sev. small flocks of mostly juv. + a few
♂♂ seen along the coast between
the airport + the area 1 mi N. of Bir-
nich.
- 2 Aug Several juv. seen No. 1 UoR's Area + in
the gravel pits - No. 1 Britton's Area. Also
along the coast among the ice flats,
were large flocks of juv. + ♂♂.
- 4 Aug Sev. 100 Juv. + Ad. ♂♂ seen along
the shore between the base + Anouk.

Holmes, R.
1961

Phalaropus fulicarius

Barrow, Alaska

7 Aug Barrow, Alaska

1 Immature seen between Camp +
Coburn Slough.

15 Aug 1 seen - Footprint

18 Aug 1 seen near Wohlseh Slough.

22 Aug Numerous immatures + a few
adult ♂♂ seen along the
beach toward the point. Small
flocks of 10-30 were present in
the ponds -

Holmes, P.
1962

Phalaropus fulicarius

8 June Barrow, Alaska

1st RP seen today - a flock / 5 flying
south across Wohlsehlag Slough. Five
more seen flying to the south over Voth Ave.
A flock / nine "
late in the evening.

9 June Many birds seen today - nearly every sp
parrot hood c pair & much chasing
has been seen.

10 June May seen today - wherever there was open water.

17 June many see near Eison bluff. -

14 June Many birds present - some copulation seen.

17 June Nest with 1 egg found just W. of the crown
floor pond - 50 yds. N. of W. black log.

20 June 4 nests - found on the plot at Ikroavik - 2 with 4 eggs, 1 with 2 + 1 with 1 egg. In all cases the ♂ was incubating. Two more found near the swampy lake in the evening, 1 with 4 + one with 3 eggs - again ♂'s were on the nest & were anxious to get back & sitting off they were flushed.

21 June One more nest was found - NE of the Wampanoag corner
4 eggs. The nest on the plot with 2 eggs -
hatched 3 today; There was still only an
egg in the other - incomplete clutch.

23 June Nest with 1 egg - new Elisa Lopez - Curlew Sdp
area. - both sexes present

24 June - All nests - just checked - only 1 had ♂ med. at cell and 4 eggs - except the one which still has

Holmes, R.
1962

Phalaropus fulicarius

2.

24 June Barrow, Alaska

only one egg. One ♂♂ + a few ♀♀ were noted on the plot. One egg was noted (near the SW end of the plot). - Several ♀♀ seen chasing each other and ♂♂.

26 June - Flock of about 30 ♀♀ seen - gravel pond - near Britton's Area.

27 June Nest on plot - still with 1 egg - warm. Apparently ♂ is still incubating. Three nests found north of Wannigan inlet to Ikroavik - 2 with 4 eggs; 1 with 3. Still some ♂♂ chasing ♂♂ on the plot - no flocks noted today.

2 July Nests in Ikroavik plot all intact with ♂♂ incubating - No nest still with 1 egg. Two more nests found - containing 2 eggs. No ♀♀ were seen with ♂♂ whose nests I have found - but 3-4 pairs were still noted. Flock of about 40 ♀♀ on Wannigan inlet. Mulla reported 100's of ♀♀ at the south end of the lake.

4 July No birds in Central marsh.

5 July Large flocks of ♀♀ along Ikroavik Plot & inlet. Still 2 ♀♀ seen with ♂♂ on the plot & the nest where I contained 1 egg in the gravel - now contained 4. The ♂ was on egg - is still incubating. Another new nest is located - on the plot - with 4 eggs.

Holmes, R
1962

Phalaropus fulicarius

5.

6 July Barrow, Alaska

♂ in nuti drum area - did a partial distraction display. When it was flushed it flew normally for 20' landed - lowered head, tail which was partially fanned - back feathers were ruffled so that they almost stood straight up & wings were out to the side. The bird feathered from side to side - even very almost touching the ground as it leaned to that side. After about 30 seconds - it then almost staggering, moved. The bird straightened up & stood there in the usual dumpy phalaropus manner.

9 July Small numbers crossing the plot - but no large flocks seen there. At south end of Ikroavik Lake - 1 flock of ~150 ♀♀ + a number of at least 500 in an Arctophila - filled pond. The rest in the plot & then entered an on the census sheet.

12 July Only birds in plot today - were those at nest - most of which were empty - i.e. had hatched - see census sheet. Whims - only occasional ♂♂ seen in the plot area during the afternoon.

14 July Several ♂♂ - no ♀♀

17 July Several ♂♂ in plot area - no ♀♀ - no young seen today.

Holmes, B
1962

Phalaropus fulicarius

4.

22 July Barrow, Alaska

Large flock - 60-80 - seen flying along
the NW shore of Ikroavik - probably
were ♂♂ - but may have included
moulting ♀♀ (?). 30-40 were also
present at the point at the south end
of Footprint Lake.

24 July Groups of 2-4 ♂♂ in the ponds + marshy area
No. 1 Voth Area.

25 July Large flock of ♀♀ + ♂♂ + a few immatures
along E side of lake - near Brant Pt (400+).

30 July 1 ♂ on Fresh Lake - none other seen.

1 Aug 3 heavily moulting birds (♂?) - on
gravel ponds near Britton's Area. No other
seen today, but large flocks of adults
were seen near the point by Hines.

3 Aug 30-40 juveniles on Fresh Lake - as well
as a ponds south of Woblesblog.

5 Aug Many juvenile birds seen on the ponds +
in the marshy areas - east + northeast of the
beach ridge. 200+ on Fresh Lake.

6 Aug 150+ on Fresh Lake + vicinity + many
ponds near Gasline Ridge. Took 2 to 30
juveniles - individuals were
frequently flushed in pond edge - on
tall sedge + grasses. 2 moulting ♂♂
♂♂ were also present - others
all were juv.

Holmes, R
1962

Phalaropus fulvus

17 Aug Barrow, Alaska

Small flock of juveniles on gravel ponds near Britton's Area & also scattered across Voth's Area & marsh.

13 Aug Only a few noted on the tundra pools - most seem to be along the shore & coastal lagoons.

14 Aug 100+ on gravel ponds near Britton's Area & 30+ along Fresh Lake.

18 Aug Large numbers of immatures seen along Elson Lagoon near Brant Pt - only a few were noted on the tundra pools.

20 Aug 30+ on Britton's Gravel Ponds.

21 Aug Very few are now on the tundra ponds - most seem to be congregated along a shore.

22 Aug 3 on Britton's Gravel Ponds

23 Aug 100+ " " " " + several near Ikroavik. Also heard 6/8 - 15 flying in along the ocean shore.

24 Aug 3-400 ± on ponds toward the Point

Holmes, R
1963

Phalaropus fulicarius

1 June Barrow, Alaska

A pair, seen in a small pond in Britton's Area.

5 June 3 on poles near Elson x Wabesblo

6 June Seven pair + 1 threesome (2 ♀♀, 1 ♂)

seen along village shore bluff

7 June Numeron. 2's - pairs seen near
Wobleschley & Eison.

8 June Numerous pairs & three-some seen along
village slough - feeding in shallow
pools & in upland tundra. One flock of
15 flying east - over VOR Area.

15 June Two - Three per - Shrubland census plot -
not common.

16 June Nest with 2 eggs. 10' E of Tropicline IBA 0.0.

17 June Three - four pair on plat at Shroane - but generally scarce.

20 Jan Nest with 4 eggs - about 100m Slough - so.
of Vot. Area.

21 Jun Nest with 4 eggs c plot at Ikroani.

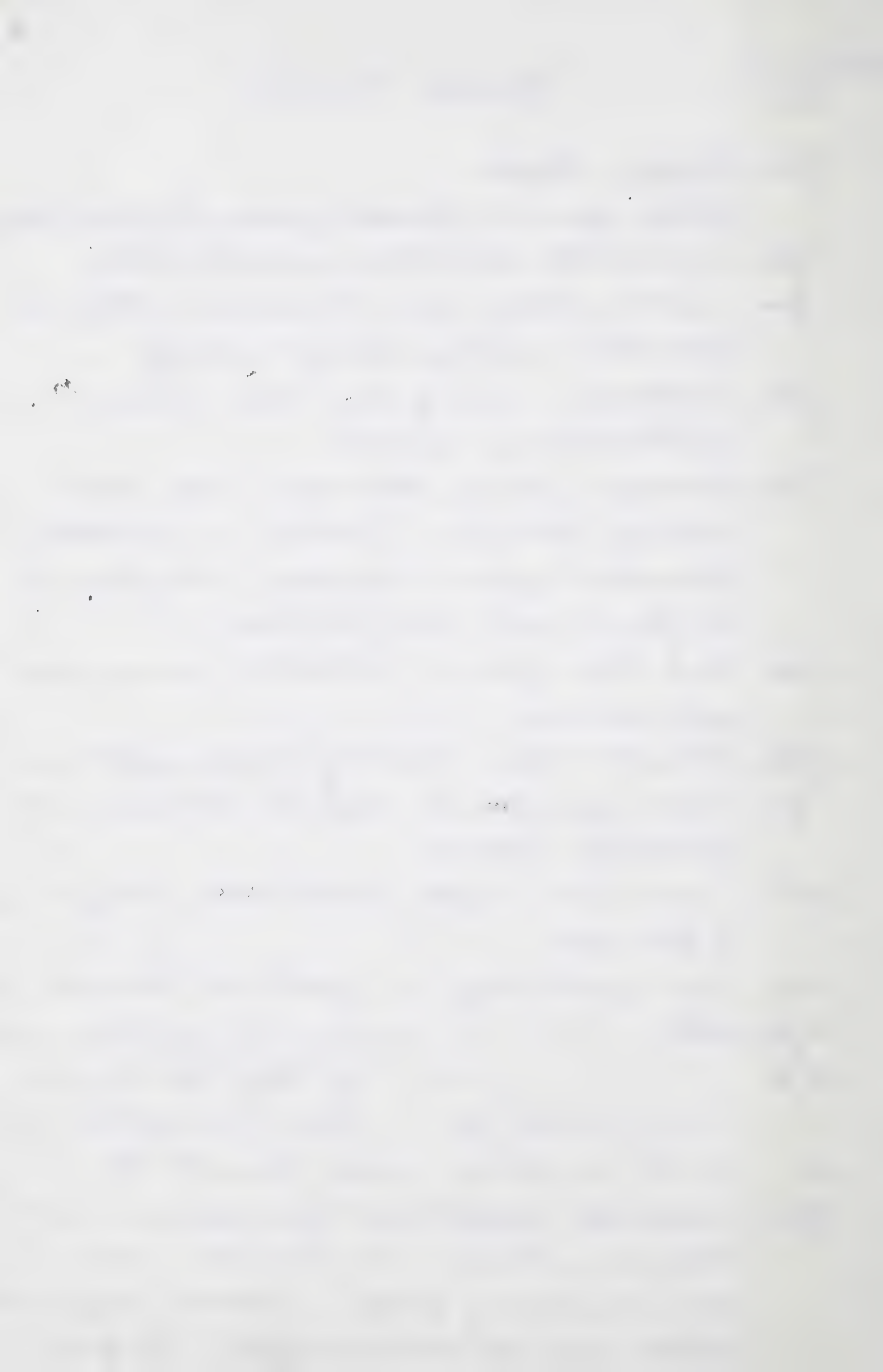
25 June Anolis .. - also 1 with 4 eggs 10-12 w. / S. Footbridge

28 Jun on main floor - 20 yd

W 1 Brant pt. Two flock of EE-196,

4 118 cap'd. near Brant Pt.

29 June - Distraction display by ♂ from nest nr. 9.0 - wings were extended out to the side - tail was depressed & partially fanned. Scap & back feathers were not raised or ruffled. The bird shuffled off through a trough - teetered side



RTH
1963

Phalaropus fulicarius

2.

29 June Barrow, Alaska

h side + fluttering his wings - given -
squeaking sound

2 July Nest found 50 yds off T. plane 5 - 10.0 -
with 1 egg - ♂ performed no distraction

5 July Nest with 4 egg - just S. of Britton's Area.

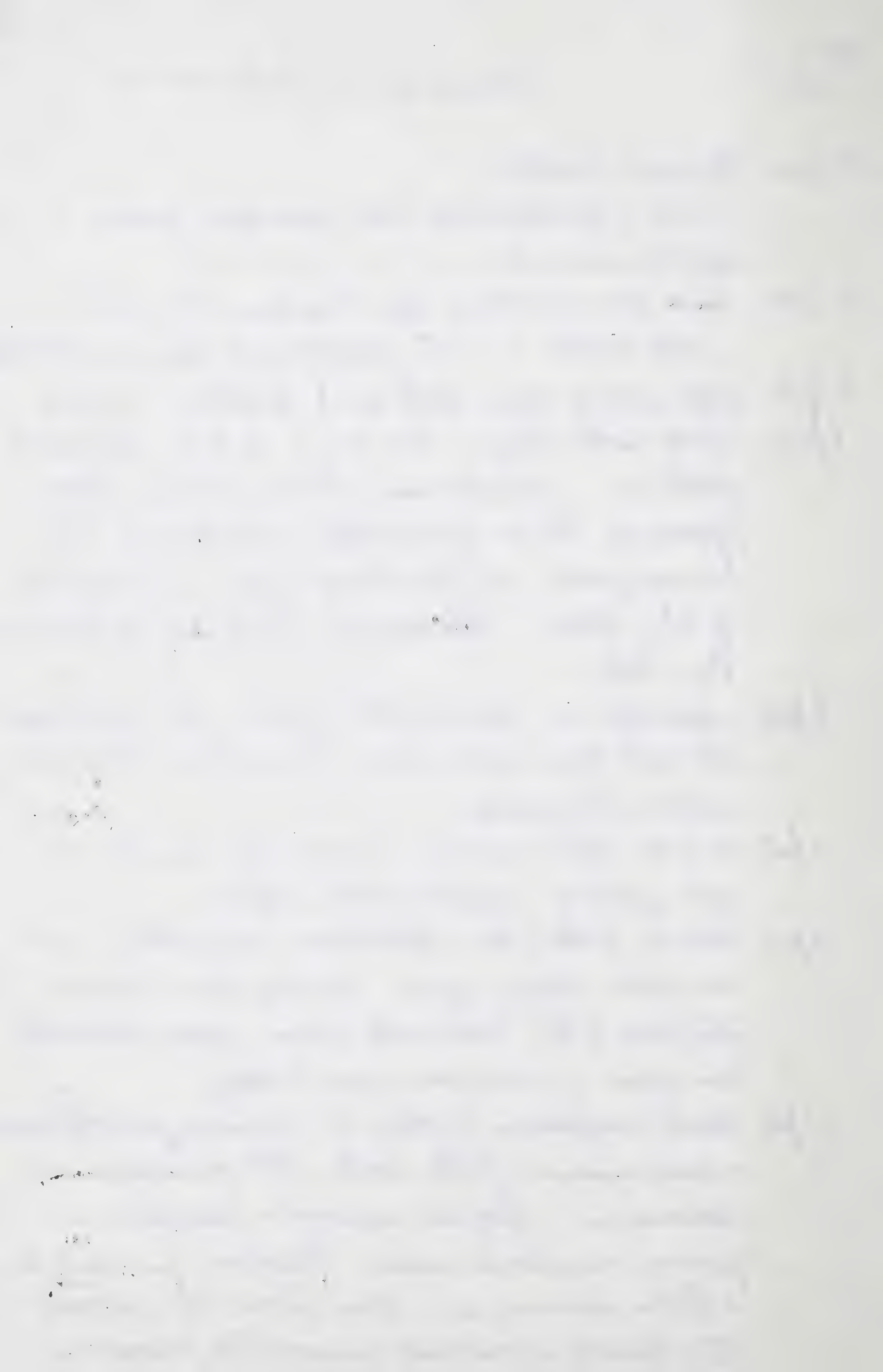
7 July Nest with 4 egg - 100' W. / 2.4 a Ikroavik
plot. - Nest near 9.0 - had 2 dead
young in it - probably victims of a
snowfall a few days ago. A few flocks
of ♀♀ along Ikroavik + stream entering
the lake

9 July Found 16 ♀ in census plot - plus ♂♂ incubation
at nest near 3.4 + 18.1. Scattered ♂♂ + ♀♀
were in the ponds.

12 July ♂ + 4 chicks seen in marshy swale - 200
yds south of north salt lagoon.

16 July Nest in Britton's Area still being incubated - nest
near Voth's slough gone. - no sign of ♂ or chicks.
The flocks of ♀♀ have not been very noticeable
this year - none were seen today.

17 July Much confusion today - census plot (Ikroavik)
- many groups of ♀♀ with ♂♂ occasionally
mixed in - flying around - landing in
grassy - upland areas - feeding for a while
+ then moving on. One flock of about
150 - birds moved across the tundra
just south of the plot.



Holmes, R.
1963

Phalaropus fulicarius

3

20 July Barrow, Alaska

Small flocks of ♀♀ - not observed ♂♂ -
Shrubby areas - groups of 3-15
were present - mostly in the upland
tundra & wet tundra - not on ponds.

One carcass - reduced to feathers & bone
by a predator - when the last well-
found 20-25 south of Gasline R.

23 July Large flocks of both ♂♂ & ♀♀ (50:50) along
Shrubby lake

4 Aug 1 Downy chick ^{collected} in wet polygon area north
of Lake Ave.

5 Aug Numerous immatures seen on ponds & marsh
between beach ridge & fertile plots.

6 Aug Flock of 16 in Footprint Lake & small
groups of 2-4 on ponds - Shrubby plot

7 Aug 2-300 on Fresh Lake at 0400 - by 0830 -
none were there - in late afternoon -
1-150 were present

8 Aug Same as yesterday - large # in early
morning - gone by 1200. E-M the
one - the more or they move out of the coast
& back into the lagoon at certain times.

13 Aug Large # (10+) / immatures - Fresh Lake &
Scattered individuals in tundra ponds.

15 Aug Common on Fresh Lake & ponds to the south -
of Wobbschly Slough - 1000 / immatures -
no adults seen.

Holmes
1963

Phalaropus fulicarius

23 Aug Barrow, Alaska

3-400 immatures in fresh lake in the afternoon.
aft. most wind Noel died down.

Holmes, R. T.
1964

Phalaropus Fulicarius

5 June Barrow, Alaska

2 flying near Voth area

6 June Saw, mostly pairs, noted so. / Br. Harb. Area

10 June ♂ near Harb., pr near Voth area.

15 June Numbers increasing - but still not very common
1 copulation noted today.

20 June Not very common - no nests found yet -
scattered birds only.

25 June Scattered ♂♂ + occasional ♀ + ♂ flying
a few + sh. roved - but to date
no nests have been found.

28 June Nest with 4 eggs on gravelly ridge + deep
grass - collected for weights. (12-14 day embryos).

29 June Flock / 1847 on North edge / C.M.

Holmes, R.
1959

Stercorarius pomarinus

7 June Barrow, Alaska.

11 birds seen near the shed at 1400-1430. They were all flying eastward.

8 June Barrow Village, Alaska.

1 bird in dark phase seen flying in from the ocean and back over the tundra. It flew at high and direct course.

9 June Barrow, Alaska.

9 birds seen flying inland from the sea near the Voth area. 2 others noted flying inland just W. of the Base.

12 June Barrow, Alaska

At least 5 of these birds were seen today west of the Voth's Slough Area. One pair (a dark phase + a light phase) was seen with another pair of light phase birds. The first pair were quickly chased out of a area by the light-pair, but they all were seen in fairly close association about an hour later. The light phase-pair were noted courting, as they flew back and forth over the tundra, the male seemed to be in pursuit of the ♀. He would

Holmes, R.
1959

Stercorarius pomarinus

12 June Barrow, Alaska

fly with a shallow wing beat where the wings were never brought above the horizontal. This was used as the bird was coming into land. In other instances during a flight the wings may be held over the head and beat so that they never come down to the horizontal (F.A.R.) This may be related in some way to the ground behavior of raising their wings. Once on the ground, the ♂ would raise his wings. Then both birds of the pair attained a strutting position and stood side by side or face to face in this position. Then they took flight in pursuit of the previously mentioned pair of jaegers. These birds were seen during the afternoon with at least one more bird at one time. The ♂ of the mating pair was seen sitting out on the snow. As another jaeger approached, the sitting bird raised and lowered its wings several times, apparently this was a weak sign of aggressiveness to indicate that this was his territory.

Holmes, R.
1955

Stercorarius pomarinus

3

12 June Barrow, Alaska.

In the above-mentioned description of the mating display, the male was also seen to cock its tail at the same time the wings were raised. It was also cocked during the strutting performance.

13 June Barrow, Alaska

One seen in and around the drum area. It was noted sitting on the tundra in a small patch of dried grass. Upon being approached too closely it stood up and several seconds later took flight. It then landed about 50 yards away and remained standing in that location for about 10 minutes. It then flew off and settled about 200 yards away. It remained attentive with neck held erect and turning from side to side - both while ~~was~~ standing and sitting. It was not seen to feed while it was observed.

14 June Barrow, Alaska

0900-1030. Drum area. Three birds seen flying, within 10 yards of each other, back and forth over

Holmes, R.
1959

Stercorarius pomarinus

4.

14 June Barrow, Alaska

The drum area. There seemed to be no pairing in this group, for conflict was not noted. One bird settled on the ground for a few seconds, then flew off with the other two towards the N.E. At the same time, 2 other birds were seen west of the drum area near the dump. They were both sitting about 20 yards apart. One flew up and flew about 100 yards and settled down again. The other did not follow.

1300-1600. Many indiv seen over the tundra. Some were in groups of 2; others three, and still others by themselves. At least three and possibly four pairs seemed to have established some territoriality, as they were noted to drive other birds out of their area. An attempted copulation was attempted once. The ♀ was spread out in the snow, and the ♂ was seen to "walk" up on to her back. Contact apparently was not made, but the behavior emphasized the "intentions".

Holmes, R.
1959

Stercorarius pomarinus

5

14 June Barrow, Alaska

of the pair. Sometimes when three birds were flying together, there would be no conflict. Then all of a sudden, two of the birds would turn and chase the third until finally they stopped the attack and the two pursuers took off by themselves. One bird was seen with a lemming in its mouth, and it was immediately joined by two other birds. After a chase for 20 yards or so, the bird with his prey and one of the others turned on the third bird and drove it off. At this time the two remaining birds landed on a hill and the rest was not observed. Several seconds later, however, both birds were seen standing on the snow about 2 feet apart. Apparently the lemming had been consumed.

2000. About 15 birds seen in the drum area and surrounding tundra. Ten were seen at one time sitting on the ground. The others were flying here and there. No aggressiveness was seen, except when one individual landed

Holmes, R.
1959

Stercorarius pomarinus

6.

14 June Barrow, Alaska

near (4 feet away) a sitting bird. The intruder was quickly chased on the ground for about 10 feet before it took off and flew to the eastward.

15 June Barrow, Alaska

Ten birds seen sitting in a down area and adjoining tundra. There seemed to be very little activity as most of the birds were standing or sitting on the ground. A few were noted flying. Three Glaucous Gulls were flying around these jaegers and loons. One would level to close and the jaeger would fly off to another mound. During the afternoon, 8 birds were seen sitting on the tundra, and an occasional one would get up fly around and then settle down. One of these birds was seen to catch a lemming and fly with it in its beak to a small tussock. Immediately three other jaegers converged on this bird. After about a minute of struggle the birds began to separate and the three finally flew off. The lemming was not seen again, so probably it

Holmes, R
1959

Stercorarius pomarinus

15 June Barrow, Alaska

had been swallowed during the haul.
Birds were seen all afternoon in the drum
area and so. of it. Aggressive behavior
was noted twice by two different
individuals in different places. Both
times it consisted of chasing another
jaeger away from where the aggressor had
been sitting. These were chased for
about 20 yards and then the bird
came back to his original position.

16 June Barrow, Alaska

at least 3 and probably 4 pairs
seem to be settled in the area between
the end of the Voth Area & gasoline room
west the west to the room of tripod-like
pole. There were noted defending
their territories several times. One
was also seen carrying a lemming
in its bill.

17 June Barrow, Alaska

One pair seems to be settled in the
drum area and possibly one by
the dumps. The one in the drum area was
seen to chase a Short-eared Owl
out of the area. The owl circled back
once, but was quickly chased out
again. About 5 or 6 birds were seen ^{in the} vicinity.

Holmes, R.
1959

Stercorarius pomarinus

8.

18 June Barrow, Alaska

4 seen in the drum area. No territorial defense was seen during the morning.

19 June Barrow, Alaska

One bird seen in the drum area in the morning and in the afternoon. No activity noted. Several were seen wandering over the ridge during the day. These were all singles so that no conflict was seen.

20 June Barrow, Alaska

Several individuals seen flying over the beach ridge. No aggressive action was noted. Jays were not seen in the drum area.

21 June Barrow, Alaska

one individual seen flying south over the beach ridge during the morning. None were seen in the drum area.

24 June Barrow, Alaska

One seen flying over the ridge at 1700.

25 June Barrow, Alaska

One seen near AFCS buildings during the morning, and another was seen just E of the beach ridge.

26 June Barrow, Alaska

One seen near the beach ridge as it flew over Central Marsh. (over)

28 June. Barrow, Alaska

One individual seen just So. of gasoline ridge. It was flying at first and then it sat on a small polygon. It then began to dig by pulling up parts of the tundra with its bill. It would pull up a hunk of grass, throw it aside and then ^{it would} look up and look around before repeating its digging."

30 June. Barrow, Alaska

Two seen along gas line ridge flying westerly.

2 July. Barrow, Alaska

Two seen near the gasoline ridge and one over the beach ridge.

5 July. Barrow, Alaska

Three seen flying and hunting over the beach ridge near the census area.

6 July. Barrow, Alaska

Several seen in central marsh during the morning and one seen harassing a female ptarmigan when it was flushed from a nest.

Holmes, R.
1959

Stercorarius pomarinus

10.

6 July Barrow, Alaska

In this case, The duck was fluttering over the ground in an attempt to fly, and the jaeger was attracted because of an "injured" bird. After she finally gained her flight, The jaeger flew off and resumed her hunting. (He had simply hovered a foot above her head while she was trying to get off the ground).

7 July Barrow, Alaska

Birds of this species were seen here and then over the tundra between APL, AACs, Beach Ridge, Wobbesley Slough and Elm Lagoon. Most were hunting, some of them were in pairs. Several nests of longspurs or some shorebirds have been destroyed on the ridge, and it seems that the jaegers may be the cause of it.

A snow owl has been in the area too, so he may also have a part of it. The majority seen today were along the beach ridge.

Holmes, R.
1955

Stercorarius pomarinus

11.

8 July Barrow, Alaska

Several seen on Voth's Area.
Most were feeding, but some
were sitting on mounds.
Apparently, none are nesting.

10 July Barrow, Alaska

Three seen hunting together
just N of Voth's Area. They
were giving loud harsh, gruel-like
calls as they flew over the tundra.

14 July Barrow, Alaska

Nest 1
2 off

Two nests were discovered today
S. of Voth's Area. One was 30 yards
west of gasoline road about a
mile S of Voth's area. It was on
a slight mound and consisted of
the eggs laying in a cavity lined with
a few grasses. The eggs were 2 in number
and were olive-green with small
black spots. 9

Nest 2
2 off

The second nest
was about 100 yards SE of the
S. end of Footprint Lake, also on a
small mound. The number of
eggs and nest conditions were
similar to the first nest.

16 July Barrow, Alaska

Three were seen near the census plot
on the beach ridge. Several others

Holmes, R.
1959

Stercorarius pomarinus

12.

16 July Barrow, Alaska

were seen flying near the Wirthsley 5
Slough and Elson lagoon.

17 July Barrow, Alaska

Two were seen near A.H.C. 5.

18 July Barrow, Alaska

The nests were checked during the afternoon.

Nest #1 (No. 1 Footprint lake) still had
two eggs. The adults were not too

excited upon our approach and one
flew about giving a juk-like call.

The nest here is on a polygon which is covered
with moss and lichens with an interspersing

of grass and sedge. There is actually very
little vegetation present around the depression

where the eggs are laid. Nest #2, SE
of Footprint lake, was destroyed. The two

egg shells were present with holes in
them. Apparently an owl or other predator

had destroyed the nest. The nest also

was on a slight mound covered

with moss and a little grass & sedge.

The adults were not seen for sure;

however, several jaegers were seen
hunting in the same vicinity. A

new nest was discovered on the
west side of Footprint lake. At 1630

it contained 1 gray-downed young

Nest 3

Holmes, R
1957

Stercorarius pomarinus

13.

18 July Barrow, Alaska

and 1 pipping egg. This nest had the same general location as the other two. That is atop a mound which in this case was very slight. Also this one had more grass and was in the middle of an open field about 100 yards wide and 4-500 yards long. It was located about 50 yards from some polygons which were much higher than the nest mound.

19 July Barrow, Alaska.

At 1200, the eggs in nest #7 were just beginning to crack. Both young were present in #3 and were quite active. The Adults in #1 are very "scary". They will leave the nest when a weasel is approaching far down the road and will not return for considerably long time afterwards. At least 15 to 20 other jaegers were seen between 1/2th Ave and Ikroavik. They could be seen almost anywhere.

20 July Barrow, Alaska.

Nest #1 at 0900 was still pipping and was covered in with 1' x 30' Sereing. Nest #3 was checked and the young could not be found. The

Holmes, R.
1957

Stercorarius pomarinus

14.

20 July Barrow, Alaska

adults were there showing signs of disturbance as I approached. However, after an hour's search, the chicks could not be found. When Nest #1 was disturbed by checking the nest area putting up the fence, the adults became quite excited and would fly around with a continual swoop at me. Also at this time, 7 other jaegers gathered around harassing the nesting pair, so the had all these birds to chase off before I was attacked again.

20 July Barrow, Alaska

Several were seen near Nuuk along the coast.

22 July Barrow, Alaska

Nest #1 was still pipping. The adult birds were very excited. #3 was checked and no chicks were found. Two jaegers were present, but did not become excited upon my approach.

23 July Barrow, Alaska

Nest #1 contained one downy young at 1300. Nest #3 was still deserted, but one young was found about 200 yards away among some high rocks. It was banded and

Holmes, R.
1959

Stercorarius Pomarinus

15.

23 July Barrow, Alaska

released in the same area. The adult did not become too excited when I found this young bird, but it was in good shape, as they had apparently been feeding it. A slight distraction display has been noted with the paired nest #3 and not in #1. The female will land on the ground 30-40 yards away. Then turn and waddle away from the intruder, apparently wanting him to follow. Occasionally the wings are dropped slightly and the head may be held out horizontally. These jaegers are still rather common and at any one time, at least 5 or 6 can be seen flying over the tundra.

27 July Barrow, Alaska

The nest #1 was checked at 1300 and the 1 remaining young was still active and the adults were still defending.

29 July Barrow, Alaska

Fewer jaegers are now seen over the tundra, and none seem to be seen over the ocean. During four hours spent in both areas only 2 Pomarinus

Holmes, R.
1959

Stercorarius pomarinus

29 July Barrow, Alaska

were seen during the whole time.

31 July Barrow, Alaska

Three birds were seen near Wablschlogi Slough in the afternoon. None were seen in Voth's Area.

1 August Barrow, Alaska

The nest was checked, and it still contains the young bird. The adults are as active as before.

4 August Barrow, Alaska

The young bird was still in the enclosure and was attended by the adults.

5 August Barrow, Alaska

Three seen near Nuwale, harassing the Sabine Gull & Kittiwakes.

7 August Barrow, Alaska

Two seen near Footprint Lake chasing a group of Pectoral Sandpipers. No contact was made.

None were seen on the trip to Wablschlogi & Deep Slough. The nest was checked and the young bird was still there, and the adults were active.

18 August Barrow, Alaska

Two were seen just west of AACs, flying over the tundra.

Holmes, R.
1959

Stercorarius pomarinus

17.

19 August Barrow, Alaska

The nest was checked, and the adults were still present and attending the young. The chick has begun to feather out and will probably leave the enclosure within a week or so.

21 August Barrow, Alaska

The young jaeger had left the nest by 1300 today. The adults were still present & attacked me as I neared the nest. They soon flew off in a westerly direction & seemed to stay about 300 yards away. - After searching the area, the young was not found, but it was probably somewhere close by.

25 August Barrow, Alaska

6 seen in Central Marsh, flying low over the tundra towards the nest.

26 August Barrow, Alaska

One seen in Central Marsh. None seen in the vicinity of the nest, w. of Lath's Area.

28 August Barrow, Alaska

One seen near Footprint Lake. None

Holmes, R.
1959

Stercorarius pomarinus

18.

28 August Barrow, Alaska

were seen in the vicinity of the
nest (#1). The feeding was
removed and made collection
the pellets.

5 Sept. Barrow, Alaska

Two seen between Footprint
Lake and Voth's Area.

Holmes, R.
1960

Stercorarius pomarinus

1.

28 May Barrow, Alaska

Numerous individuals and groups of 2 and 3 seen in the vicinity of the head ridge during the afternoon. No direct evidence of area occupancy was noted. During the evening, however, in the Wohlseh Slough & southern head ridge area, chasing was noted & also the wing ruffling threat given from the ground.

A glimpse was obtained of a pair courting, but the birds flew off before any details could be recorded.

29 May Barrow, Alaska.

Numerous birds present over the tundra. Many are showing signs of occupancy as birds well spread their wings & "call" at intruders. Occasionally, aerial chases were noted. 1 out of 10 birds (roughly) appear to be in the dark phase.

30 May Barrow, Alaska

Many settled pairs were noted near VOR's Area and Village Slough. Birds could be seen sitting on the snow or low mounds. Occasionally one would rise and

Holmes, R.
1960

Stercorarius pomarinus

2

30 May Barrow, Alaska

circle around when a wandering jaeger came into an area. Twice a wing raising display was performed by both birds on the ground. In the case, the wings are raised high over head & the head is held back & extended forward. Usually a rather loud cry accompanied the display.

31 May Barrow, Alaska

Numbers seen to have increased during the day. Maher estimates a 3-4X increase in the central marsh region. Birds seen to be evenly spaced out & over wide expanses of snow while have a pair or two of jaegers sitting on it & defending. This was against others.

1 June Barrow, Alaska

Scattered jaegers were present between ARL and Ikroavik. No large numbers were seen. A group of 21 were seen sitting on the lake. Along the west side, pairs seemed to be established every 1/2 mile or so. No large concentrations were observed.

2 June The same held true today for the jaeger populations in the Ikroavik

Holmes, R.
1960

Stercorarius pomarinus

3.

2 June Barrow, Alaska

area. In evening Voth Area +
Vulley locator were censused by
Maker.

3 June - 19 birds were seen sitting on tundra
on Elson Lagoon.

5 June - Barrow → Inarn River, Alaska

Numerous birds seen all the way to the
Inarn. See Maker's Notes for
details on numbers. One nest was
located just 75 feet from the river.
It contained 1 egg.

6 June - Barrow, Alaska

A flock of 35 was seen at Footprint Lake,
plus the pair of settled birds. A
nest was found southwest of Footprint
& No. 1 Ikroavik. There was 1 egg. This
nest was located on a small mound
(of about 3 feet in diameter) and was
completely surrounded by snow.

7 June Barrow, Alaska

A territorial dispute involving 6 birds
(3 pair) was observed in central marsh. The
encounter involved several physical clashes
which sent the birds to the ground. There was
much squawking + yelling and finally
the intruding pair left the area +
the 2 residents returned to their territories.

Holmes, R.
1960

Stercorarius pomarinus

7 June Barrow, Alaska

A nest was located on the south shore of Wohl. Slough about 400 yards in from Elson Lagoon. It contained 1 egg. Another was located in a deep (natural) depression in the bed of lichen on the west margin of the beach ridge between the central marsh plot & the head ridge plot. This nest contained two eggs.

8 June Barrow, Alaska

No new nests located on the west side of the gas line, but several ♀♀ were "broody". A flock of 56 was present on Footprint Lake in the late afternoon.

9 June Barrow, Alaska

A pair seen courting east of the beach ridge. When first observed, the two birds were facing each other head on. The ♀ was hunched over low and was moving her head & neck from one side to the other. The ♂ had his head lowered, but was not hunched over. The ♂ then picked up a larva & the tug-of-war followed. Both birds held their wings high, while at the same time holding on to the larva with their bills. The tugging lasted for



Holmes, R.
1960

Stercorarius pomarinus

5

9 June Barrow, Alaska

about 1 min, after which the humming was dropped. The ♂ then began to jump into the air with both wings raised. He appeared to bounce or spring up to a height of 3-4 ft. There were 4 of these actions before he took flight to defend the territory. All this time, the ♀ was standing very close in a slightly hunched position. Numerous nests are now being found; these can be seen on the map.

13 June - Many are now present, and most are nesting. There are no larger flocks of birds seen on the lakes; however, occasionally single birds are seen. Territories seem to be present on the Star 1 footprint lake, but nests have not been found.

23 June Ikravik (Barrow), Alaska

The nesting density here at the lake appears to be similar to the area around Barrow. The birds can be seen all around the warden, & several nests can be seen from that location. These will be plotted after they have all been found. One

Holmes, R.
1960

Stercorarius pomarinus

6.

23 June Ikroavik, Alaska

pair which is located directly south of the waniga has a nest near the NW corner of the plot. The aggressive member of the pair is especially irritable, whenever I approach both birds become highly excited & begin dive bombing immediately. The ♂ usually drops his feet just before he passes by, so that these hit against my head or hands. The ♀ is not quite this aggressive, but she will come quite close in her dives. It has gotten to the point now that whenever we come out of the waniga, the bird comes as near to the nest (& sometimes both birds) will fly over & start attacking - even though we are 100 yards from the nest.

28 June Wainright, Alaska

Birds were seen throughout the trip from Barrow to Wainright. At the site in an area of a little more than $\frac{1}{2}$ a square mile (actually about $\frac{3}{4}$ of a sq. mi.) there were approximately 4-5 pairs. Several territorial encounters were

Holmes, R.
1960

Stercorarius pomarinus

7.

28 June Wainwright, Alaska

noted but there were infrequent. In walking about on the tundra, we were never attacked by jaegers, and it was my impression that jaegers were generally scarce (at least compared to Barrow).

29 June Barrow, Alaska

Rex Pieper + Don Miller reported seeing a jaeger take a Phalarope egg. Apparently they saw the bird on the nest, and after scaring it off, they found that the egg had been punctured but the bird had been scared away before he had eaten the contents. Jaegers were seen attacking the owls at Nest 3 + 2 this morning. On several occasions, it seemed that actual physical contact was made.

1 July Iktroavik, Alaska

The nest in front of the wanigan at the NW corner of the plat has one egg which is pipping (at 1600). Carson reports that he saw a chick near the south end of Iktroavik this afternoon that must be at least 2 or 3 days old (still in downy plumage, but out wandering around).

Holmes, R.
1960

Stercorarius pomarinus

8.

2 July Iktroavik, Alaska

The nest in front of the wanigan contained 1 young this morning, and the second egg is beginning to pip. The nest near the slough (N. of the wanigan) had 1 young present near the nest site. The second young could not be found.

3 July - a pair of jaegers where both members of the pair are melanistic was found near the NE shore of Iktroavik.

7 July Barrow, Alaska

Many of the jaeger nests are now hatched & the young are extremely hard to find.

9 July Iktroavik, Alaska

As a pair of Steller's Eiders landed on a pond behind the wanigan, a jaeger began to swoop down at them, making them dive. This went on for a minute - when the jaeger would fly at & attack(?) the water for a time they surfed. Finally the jaeger sat on the water & would swim over to the pair when they came up. After another minute of this, the jaeger left the pond, leaving

Holmes, R.
1960

Stercorarius pomarinus

9.

9 July Iktroavik, Alaska

The jaeger to himself. This is the first time that I have seen jaegers attacking other birds (esp. adult ducks). It is most likely that the jaegers were nearby & the birds would have reacted that way to any animate object which entered that area.

17 July Barrow, Alaska

The young are now starting to show up on the tundra, and several were caught & banded today. Many of the adults are still aggressive.

21 July Barrow \leftrightarrow Iktroavik, Alaska

During the last few days, the chicks have become bolder & can often be seen flying running across the tundra & just staring motionless by a polygon. The adults are still aggressive.

25 July Barrow, Alaska

One chick found near Britten's Area which was nearly ready to fly. The wings were nearly fully developed, and he was able to fly for 1 or 2 strokes. The bird was caught & banded.

Holmes, R.
1960

Stercorarius pomarinus

10.

26 July Barrow = Ikroavik, Alaska

Pairs were noted all along the way - between Barrow and the South end of Com Lake & the Ivanigan. Several chicks were seen. Numerous dead jaegers (shot) were seen near the gas well, on the west & east shores of Ikroavik, & north of Footprint Lake.

28 July Barrow, Alaska

The adults are still quite common; however, adult encounter are now seen infrequently. The young are also rather difficult to see, and our banding operations has been quite slow. Most, probably early immatures are still seen in the tundra - but most of these are old and well up.

30 July - The adults are still present and are defending territories. The young are still hard to find.

3 August Barrow = So. Barrow, Alaska

During our 9 hour trip, only 5 chicks were seen (2, 1, 2) on the ground. Adults were present all along, and several territorial

Holmes, R.
1966

Stercorarius pomarinus

11.

3 August Barrow: So Barrow 3, Alaska

encounters were noted. The young are evidently present, but just cannot be seen. About 4 or 5 flying juveniles were noted during the trip - the first for the season. A dead adult was noted at one owl nest, and a dead chick was at another (see Sn Owl notes).

6 August Barrow - Ikroavik, Alaska

Numerous flying juveniles were seen between Barrow and the lake. At the plot, the pair at the NW corner had 1 flying young that was seen. This bird was a melanistic individual - while both adults are normal. On the east side of the plot near the lake shore, there was a normal ^{see below} pair with a flying juvenile which had white bars extending clear across the upper surface of the wing.

The strip of white was ^{about 1 inch} about 2 inches wide and was very noticeable + out-standing. (The ♂-adult had a little more white than normal at the wrist joint - the ♀ was melanistic).

Holmes, R.
1966

Stercorarius pomarinus

12.

9 Aug. Barrow, Alaska

Two flying juveniles are now seen along the west edge of fresh-water lake. Others are seen frequently on the tundra.

14 Aug - A group of 4 Adults and 4 Immatures were seen flying together over the beach ridge. There appeared to be no territorial conflict between the birds, but they were only seen together for 1 or 2 minutes.

21 Aug Numerous Adults + juveniles are still seen on the tundra. Many of the pairs seemed to have raised 2 chicks.

25 Aug - Many of the pairs are still on territory along with their chicks. It seems, however, that some of the chicks are starting to leave - as groups of 3 or 4 are now seen.

29 Aug Two territorial disputes were seen today in Central Marsh. In both cases, the adults announced (usually on the wing), and a chase ensued. The chases were of short duration.

Holmes, R.
1960

Stercorarius pomarinus

13.

30 Aug Barrow, Alaska

On 28 Aug, the remains of a partially-eaten jaeger chick were found near trapline XIII in the Sertkij plots. About 40 feet away was the body of a juvenile Snowy Owl (band #60). It appeared that the young owl had killed the chick & had then been attacked by the adult jaeger which had injured it badly. It was then able to move away (it gave up a pellet containing a jaeger's foot) before it died. On the same day, another chick was discovered dead (only feathers remaining) near trapline XIV. Both of these juvenile jaegers had been dead at least several weeks & both were unable to fly at the time of their death (i.e. - flight feathers not developed enough for flying). Today, a third incident was found about 200 yards NE of the trapline at the edge of the polygons. Here another batch of juv. jaeger feathers were

Holmes, R.
1960

Stercorarius pomarinus

14.

30 Aug Barrow, Alaska

Found + also another dead juvenile (banded) owl. It appears to be another repeat of the same incident.

No territorial encounters were seen today, and in general, there seem to be fewer jaegers on the tundra. It is still possible to hear the juvenile bird's cries nearly everywhere.

Archie wt at 1300 = 807.5g.

2 Sept - Jaeger seemed to be rather scarce today. The two chicks along the logjam^(fresh) were still there and at least 1 adult was also there. Hot spurs parents + sibling were still there. During the travel around the marsh, several adults + only 1 or 2 chicks were noted. The day was cold + it was snowing, so this may have quieted the birds. No territorial encounter was seen, however one incident was noted. An adult jaeger was flying west. A few seconds after I saw the bird, another adult

Holmes, R.
1960

Stercorarius pomarinus

15.

2 Sept. Barrow, Alaska

took off from the ground and followed behind the 1st bird. After a few more seconds, this second bird settled down; the high flyers were kept on going. This was apparently a territorial action, but a very weak one.

3 Sept. The pr. ad. The wamiga were gone today, but one bird near the inlet to Akrovik was seen to follow & give the wing announce to a migrant juvenile. Another pair were noted feeding a chick (cepsok of flight) in Jodprint. These were probably members of Archib's family. In general, there seemed to be a lack of joyous, lower if you will, closely occasional birds are seen sitting here & there.

Holmes, R
1961

Stercorarius pomarinus

3 June Barrow, Alaska

Two lone individuals seen between the centre marsh trapline + enclosure + Wobleschlog slough. However, to the east along the north shore of the slough, there were what appeared to be 2 pair - all light phase, sitting + flying. Again, as with the gulls, no feeding activity was noted.

4 June - Several "pairs" and individuals were seen along Red-back Ridge + near Ikroavik. Birds were hunting - in the air, but none were seen to land - for prey. (Some were seen sitting but these apparently were not hunting).

5 June An estimated 30 birds seen between the camp, beachridge, Wobleschlog slough + Elsen Lagoon. One individual was in dark phase; the remainder in light. Many seemed to be hunting, but none were seen to catch a lemming.

6 June Seen commonly between Footprint + Ikroavik during the afternoon. (10-15 birds) - all hunting.
- all in light phase.

7 June Mostly individuals seen today - (HAR) on the beach ridge, along Elsen Lagoon + ~~near~~ near Voth's Area. All were in light phase. No catches seen, but Muller apparently observed one yesterday.

9 June - Several pairs noted in Footprint Lake; these would be sitting until the

Holmes, R.
1961

Stereorarius pomarinus

9 June Barrow, Alaska

Weasel disturbed them. Many lone birds were seen north of harbor & near Ikroavik. (on 7 June - in the late evening, Chamberlain & I observed a jaeger, hairy gnatcatcher humming near Uoth's, all -- this is the 1st I have seen with a lemming).

11 June Large numbers were present in central marsh. 8 were seen sitting closely together. The were flying around - & that at one time from the center of the marsh, 28 could be seen. Other were seen flying over the beach ridge. All were Pomarine - in light phase, except 1 dark.

12 June A few scattered jaegers seen in the vicinity of Uoth's area.

13 June - One seen to catch a lemming near denali gate. Several birds in light phase were cruising the census plot at Ikroavik.

15 June Several birds seen on the tundra, east of the B.R., but numbers seemed to be slackening off.

17 June Only 2-3 birds seen today - during an entire day spent on the tundra.

18 June Very few birds seen in central marsh - both areas.

20 June None seen a plot at Ikroavik, but 2 seen on Jordan's lake. For the most

Holmes, R.
1961

Stercorarius pomarinus

20 June Barrow, Alaska

part - They seem to have departed now.

24 June None seen during the past 3 days, incl. the trip today to Ookpik Slough.

Holmes, R.
1962

Stercorarius pomarinus

2 June Barrow, Alaska

Flock of 5 seen flying (high - not hunting) to the NE - along Wohlshlag Slough & across over Elm Lagoon.

6 June 1 individual flying ^(high) NE - across the Ikroavik census plot -

7 June 2 flying high - going so. along Elm Lagoon near Wohlshlag Slough

9 June 1 flying over the census plot at Ikroavik; 1 flying over Footprint Lake; 1 flying over Bauli area.

10 June 1 bird near the corner of Elm & Wohlshlag - sitting on a small exposed piece of tundra - gave several yank-yank --- to another bird as it flew over & headed so.

A pair was seen at the south-east end of Central marsh - near the south end of the beaver ridge. The birds were doing the head tossing - facing each other - & a short furrow with a humming was noted. So courtship was being carried on - maybe some will nest yet.

11 June ~~Had~~ Saw several birds around the beaver ridge - perhaps one settled pair near meadow lake & one east of magnetic station & 1 the Beaver Ridge. One furrow was noted between a pair E of the ridge & later the two birds were seen 30' apart on ground.

Holmes, R.
1967

Stercorarius pomarinus

2

14 June Barrow, Alaska

1 $\frac{1}{2}$ birds in sight at all times between
Bevel Ridge - Ootpiik Slough + Ikroavik.
They seem to be quite spread out &
are actively hunting. Birds at Ikroavik see
settled - in localized - but no evidence
nesting yet.

16 June. Settled birds seen near the Curlew Sd
area - near Elm Canyon - Chasing reported
by Pitelka - along bevel ridge.

18 June Numbers decreasing - only a few seen along
bevel ridge.

20 June 3-4 birds seen between Vot area & The
Ikroavik warrigan. 3 birds were seen on
the plot - but they showed no sign of
settling & were probably straggling.

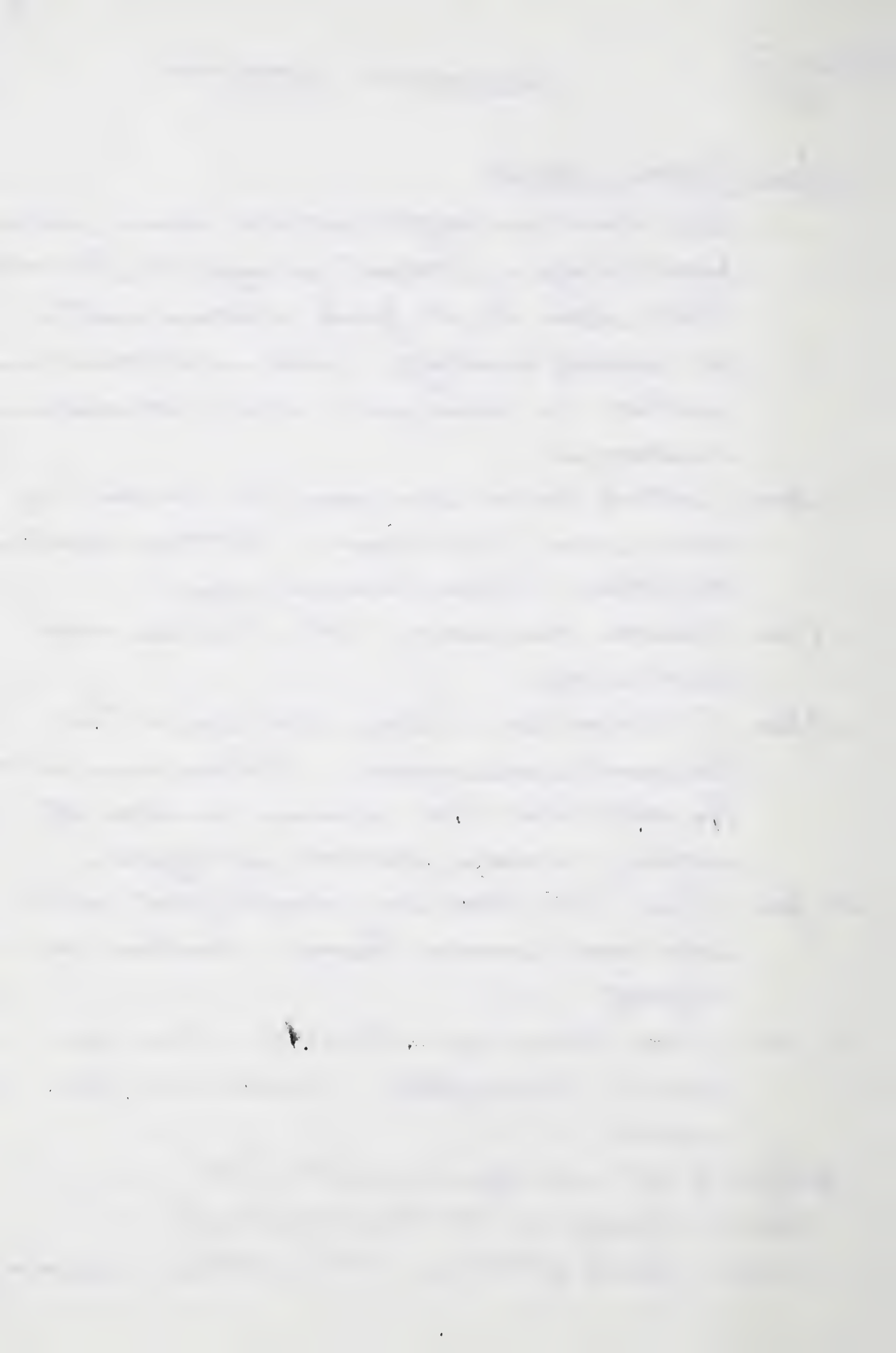
21 June Again, 3-4 birds seen along the plot - but
birds were moving through - hunting - no
stopping.

24 June 1 seen during flight to Ikroavik. None seen
while in census plot. Numbers are very
reduced.

27 July 3 birds seen flying over plot to B.

4 July 1 flying over Wohlsehoy Slough.

12 Aug 1 dark phase in Vot area - hunting.



Holmes, R
1963

Stercorarius pomarinus

27 May Barrow, Alaska

No jaegers seen along the north ridge -
One pair was setting on a mound near
the north end of Artelka's Plat. While
3-4 individuals were seen flying over the
plat at various times during the
afternoon. Several more were seen
singly along Etsenloyon. north of
Wohlschlag. Probably 12-15 individuals
in all were noted between a
magnetic station - Wohlschlag, Stoyl-
Etsenloyon.

Two chases, accompanied by the nasal
~~are~~ nay, nay calls were noted, but in
both cases, all birds moved on - there
was no evidence of area-attachment.

28 May None seen in drum area. During afternoon
between Britta's area - village slope &
Voth area - Saw 11 (incl. 1 melanistic). South
of the village - near village slope - 2 birds were
found - 300 yds apart - both 1 which
acted like they were settled, altho. no
territorial defense^{was} seen. When they
were flushed, they returned to the same
area. - lemming activity was frequent
in this area. A "settled" bird was
also present near the insect plots.

Holmes, R
1963

S. pomarinus

2.

28 May Barrow, Alaska

In evening, 6 jaegers seen between Wohl + Oolupik slogs - 2 along Pitelka's Plot + 2 together on ground on north edge / central marsh - near Beach Ridge - 50. / 17 AC S.

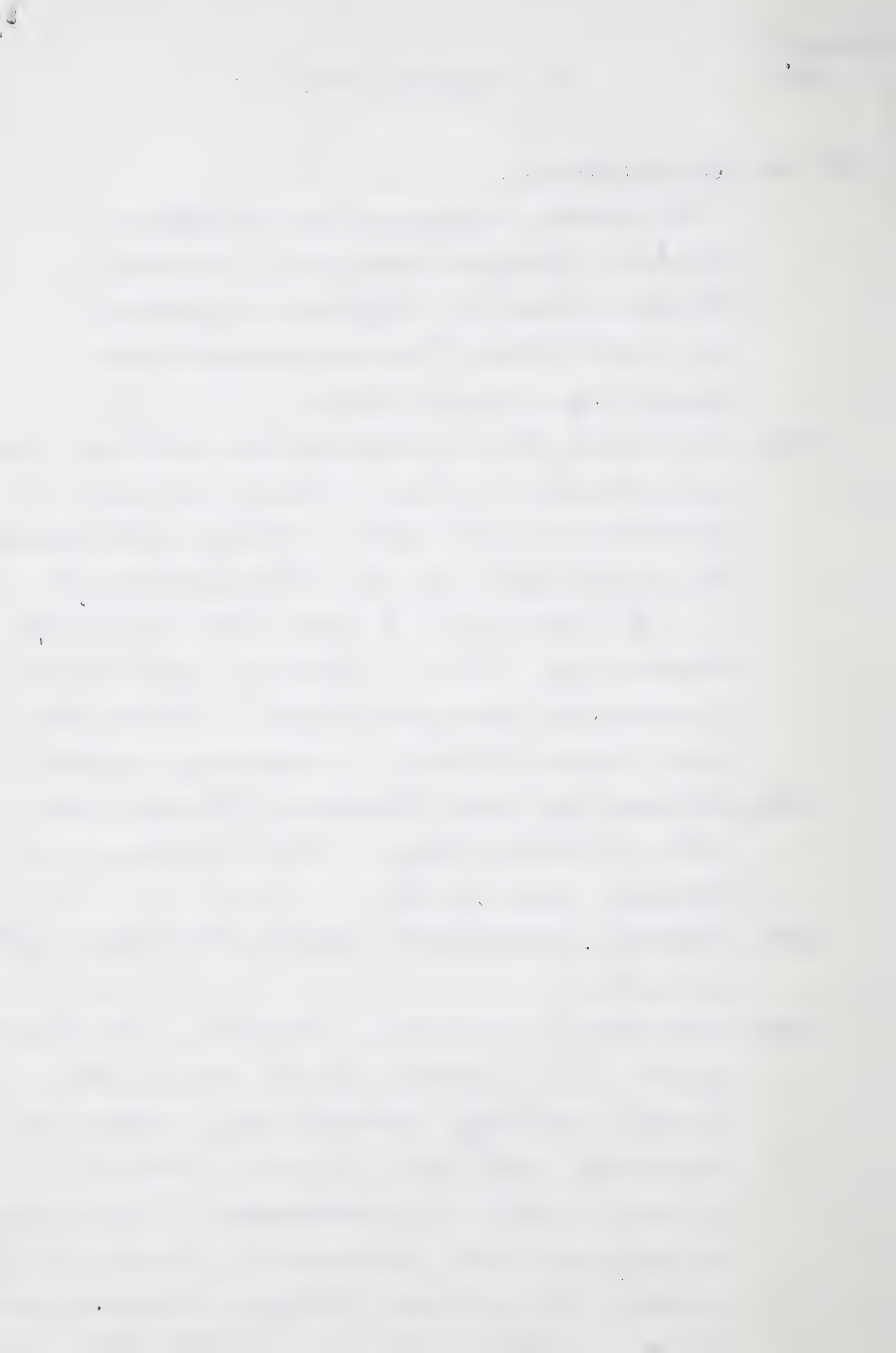
29 May 3 at 81. and 1 BR - 1 chased off by rlv too. - same seen at Oolupik x EISM. Wohl → Oolupik - 8 individuals + 1 pair seen. Frequent individuals seen no. / Wohl - to vic. of Brant Point.

In evening - 8 were seen along the No. beach ridge - incl. 1 dark + 1 light colored remained close together. Many other (20+) seen between beach ridge + EISM.

30 May At least 30 seen between Britton's Area - Wohl + Beach Ridge. Some chasing + "naaymg" were noted.

31 May Numerous individuals along EISM (Agson bluff (20-30 ±))

2 June # observed by scanm SE → SW from Denali gate - 16. Many birds seen in the south village sloop area - some were definitely defending areas, chasing away other individuals. Birds were as frequent at Ikroavik; south of well + Oolupik slogs + census plot area. Estimate - about 8 birds / square mile?



Holmes, R.
1963

Stercorarius pomarinus

3 June Barrow, Alaska

Many - along EISN lagoon between Drift Point & Salspud - many were sitting on mounds or defending against wandering birds - or perhaps adjacent pairs ??

5 June Jays are still abundant - chasing & perhaps the dominant activity of the birds - many are seen sitting on mounds, etc - little hunting activity is noted.

6 June - Same as above for Voth Area - Village Slough.

9 June Tough-o-war between pair - ♂ would swallow each chunk, as they tore the Lemnong apart. Others seen hunting & chasing today. No nesting behavior noted. ~~None seen near Voth~~

10 June Numbers seemed lower today - birds were encountered here & there (1 pair on north beach ridge, 1 near EISN lagoon - chasing - 3 or 4 wandering). None seen on Pitelka's Plot or on beach ridge. In Voth Area, only 2 singles were seen.

11 June In drum area, pair - beach ridge near Garrison. 1 So. Garrison Ridge. None seen between Garrison & beach ridges.

RTH

1963

S. pomarinus

4

11 June Barrow, Alaska

In afternoon on white-rump sector / br -
one pair was called south of the
ridge, east of meadow lake - they
were seen to defend against 2
wandering birds. - appeared that
several birds in the afternoon
were not attached - but
moving slowly on the tundra -

- Nest with 1 egg located
300 yds - west of road slough - half
way to village slough. - in
polyg. top - slight depression. -
are around some moderately
developed polygons. - 1 Bird was
flushed from the nest

12 June NEST - with 1 egg - ♀ in nest - 150 yds south of
float pen lagoon, 500 yds - West of Mag. station. On
low polyg. - sparsely covered with grass &
sage

NEST - #3 - with 2 eggs + with incubating
bird - 30' West of Center Sigs - digger
are stakes - ie west of high center
polygons - near #1 or lagoon. Same situation
as #2 - above

Nest #4 - 2 eggs - inc. ♀ - 200 yds west of Elm
lagoon, 300 yds N, of W. lagoon - on mound
dead grass arranged loosely around cup

RTT
1963

Stercorarius pomarinus

12 June Barrow, Alaska

Pair located halfway between Calumet Rd & insect ponds - 1 bird shot by KATP - the nest had one egg. - KATP

15 June - Several pairs seen between beach ridge & Ikroavik - one just south of beach ridge near the gasline, 1 just north of gasline ridge - 1 along west shore of footprint lobe, 1 in valley north of Ikroavik (bird seen ^{2 eggs 6-17} - not #10) & near stake 10.0 & adjacent area of census plot. Birds when seen here now - seem to be nested - perhaps 1-3/sq. mile).

17 June Same pair located off to west of 10.4 - Ikroavik census plot. No nest located. No wandering birds seen.

In evening at Nest #3 (near Curlew Sept. area) - 4 birds moved south in a loose flock & were chased by the sootied birds.

Nest #5 located 200 yds south of beach ridge, 100 yds east of north meadow lobe - with 1 egg.

18 June Nest #6 a small polygon - 75 yds west of Gaswell road - 200 yds north of footprint.

19 June Nest #7 - with 2 eggs - 200 yds NNE of 0.0 / Pitelka's Beach Ridge census plot

Holmes
1963

Stercorarius pomarinus

6.

23 June Barrow, Alaska

Member 1 pair from nest # 2 near
Elsin Lagoon - now far from nesting, part
a ♂ Red Phalarope - when the latter
was checked - oft scaven off the eggs -
it was found to be cold - so the
may not have been a full kill. In
any regards, the birds were tearing it
apart by tugging.

25 June One pair hanging around 10.4 on the
Shrovel plot - but no nest has
been located yet.

26 June Another nest - (# 9) - found 20 yds south/
middle salt lagoon + 150 yds E of 10th creek -
or low mound. - contained 2 eggs.

29 June Birds with nests are still around - but
they are relatively inconspicuous & not
call or fuss when one approaches their
nest - when other gulls come by.
No wanderers - nor - birds have been
evident for several days now.

3 July - Same as above - the birds are seen
locally - but are widely spread

8 July Young bird seen by Boyd + Johnson - in ELSA's
marsh - from which nest is uncertain

7 July - Nest - 300 yds N. of Shrovel found earlier - checked
today & it had only an empty egg shell - which had
not hatched - but had been pried open

Holmes, R.
1963

S. pomarinus

7 July Barrow, Alaska

(Field Chicks, et al.). About 20% of fresh
nest - ~~to~~ c & q was caught a - for trap-
c & p was marked. Aft amputating her
foot - where was hanging by a tendon, she &
her mate flew off but remained in the
area. Perhaps. My deserted the nest &
some other jaegers cannibalized it - or maybe
they did it themselves.

9 July The above 2 birds were not seen in the
same areas. The nest north of Footprint
had just hatched - 1 year, was out of the
cavity - the 2nd - was just out of the
egg - sitting in the cup.

12 July Nest #7 (E level ridge) - with 2 small young - 2-3
days old. - both adults in attendance. At nest
#2 - one adult was found dead (shot) - probably
happened 1-2 weeks ago - eggs gone - probably
predated. At nest #9 - Sr. / middle saw
logon, one of the adults was brooding 2
1-2 day old young in the nest site. The young
were banded.

13 July A pair - overcast & over light phase - at south
west side of Footprint - by calls &
behavior, they had eggs or young
nearly. - collected.

There are 3 pairs near census plot - 1 W
of 10.0 - 1 young SE of 25.0 & 1 20-25 SW of 25.4.

Holmes, R.
1963

S. pomarinus

14 July Barrow, Alaska

PJN #3. near EISA lagoon. Curlew S&P area - with young away from the nest + both adults present & concerned about my presence - chicks were not seen.

PJN #4 - at EISA x Wobbschly - no sign of the adults & chicks - probably shot out - eggs & debris, remains not present at the nest

AT Chicks nest - E of head ridge plot & north of Wobbschly - both adults were present - 1 chick had hatched & was there; the other was still pipping.

15 July Chicks nest - north gasline ridge had hatched - the adults were present & excited while I was at the nest site - but the chicks were not seen. Both chicks at the nest next to O.V. or beaver ridge were present & were seen waddling on the tundra, 50 yds from the nest site.

17 July Several wandering individuals - more on the plot - apparently hunting.

18 July Found a pectoral Sandpiper - adult - ♂ probably - which had been late-patched to the bone - probably by a jeger - not / b. r. - lost / AACS.

19 July 1 chick / pair south / Voth the banded today - the other was not seen.

Holmes
1963

S. pomarinus

9

22 July Barrow, Alaska

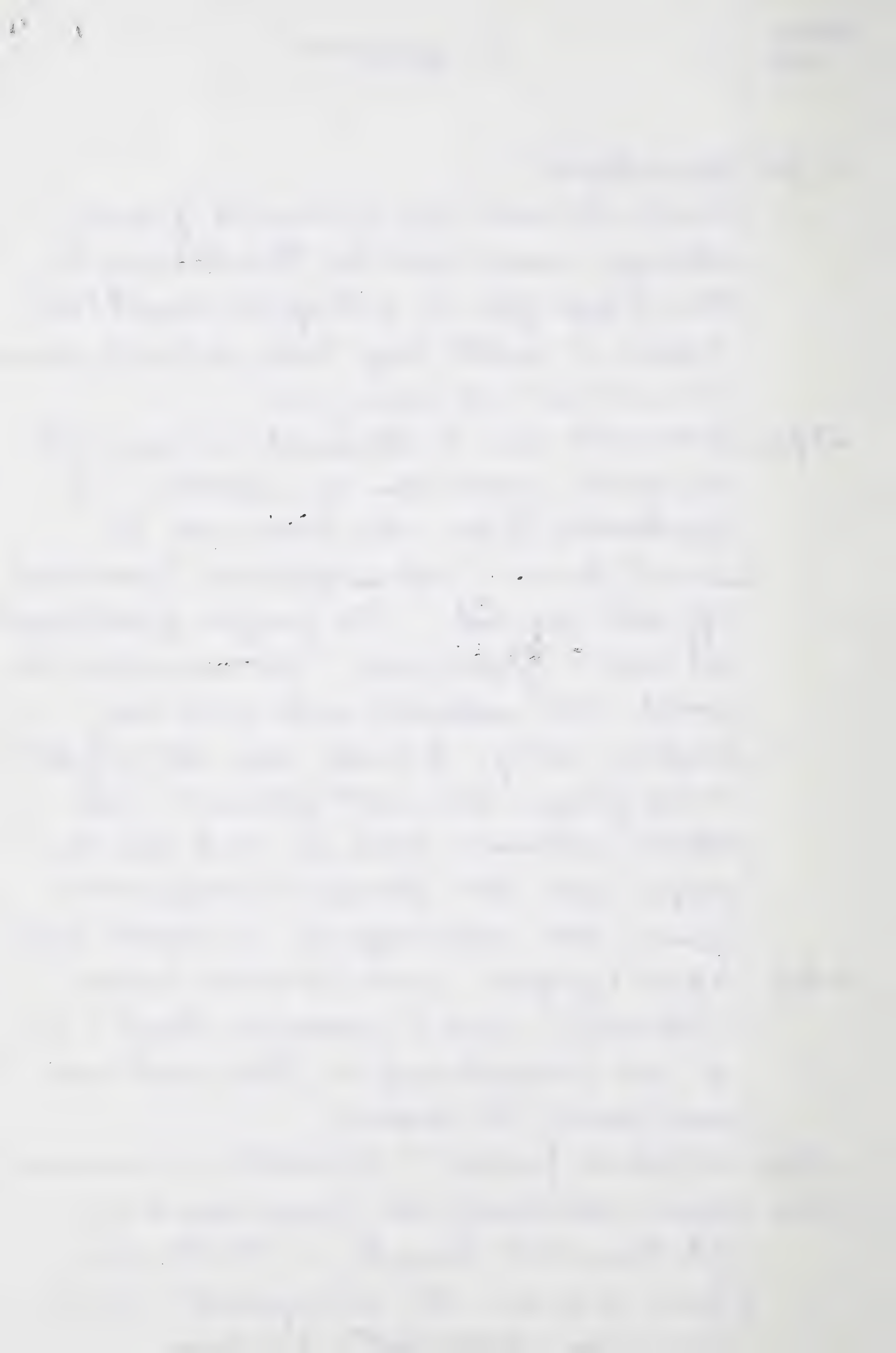
Birds from the nest E of b.r. + north of brown
Wannyn were seen by Phil Johnson to
take 2 eggs from a sandpiper nest (sp?)
+ leave 2 with large holes poked in them.
The was near the wannyn.

23 July At the south end of Ikroavik census plot -
one bird was seen to attack a ♀
Spectacled Eider - by diving at her
several times - at which she waddled
off into a pond. The jaeger still hovered
at her - flying low - hovering above her -
while she splashed water with her
beating wings. Finally, she took flight
+ the jaeger did not follow. The
actual maneuver made by the ♀ + the
jaeger were not observed accurately -
since the all happened in about 3 sec.

26 July A pair of jaegers were at least 1 chick
(banded) - south of wobblesble floyd - 50
+ 1 and 1 banded indg. - then not was
not found the reason.

29 July See journal for acc't of predation - should be

4 Aug Several wandering Ad jaeger seen in the
both the + both floyd - most were
flying regular - low above pond - but
one was evidently hunting.



RTT
1963

S. pomarinus

10.

5 Aug Barrow, Alaska

Numerous Birds (20+) seen between Vent Air + Skroand Plot - most were flying + hunting - a few were sitting. No juv's were recognized. The Numbers seen represent more than birds in the area traveled - no wardens.

9 Aug Nest #17 - NE / 0.0 or FAPS Cervic plot - both adults + 1 flying immature - (2nd couldn't be found). Both flying young - reported by Muller from the enclosure - north wabls along area.

12 Aug One adult seen eating a large (but not quite flying size) golden plover chick - when approached for close, it would fly off with the chick in its bill + land 100' away + return to feeding the bird apart.

South of Jackie ridge (20+ 2d sound / 10.0 or line I + II) - 2 flying juv. chicks + at least 1 Ad. - There had been a nest in this general locality - but it has not been found.

Another case - 300+ E 1 Fert. plot - 7 2 Ads + 2 flying chicks - so both have been seen in some cases. Several other ^{adults} ~~was~~ were seen flying + hunting - but no other juv's were found.

RTH
1963

S. pomarinus

15 Aug BARROW, ALASKA

Several adults seen flying over beach ridge; one was observed to fly & on tundra between Fert. plots & meadow lakes.

Two flying chicks south of garden ridge & 1 by north meadow lakes. -

18 Aug Juvs still quite common. One adult was observed flying up a lemming burrow - in a mossy area.

22 Aug 1 chick (flying) west of South Meadow Lakes. Two flying immat. - with 1 Ad south-east of Fert plot. Several hunting adults seen between So. meadow lake & Fert plot. Dr + chick east of BA - (O.O of FAP's census plot) - were not seen.

23 Aug Several adults seen along beach ridge - north of Pitelka's plot. - no immat.

25 Aug Several seen hunting over tundra.

Holmes, R.T.
1964

Stercorarius pomarinus

4 June Barrow, Alaska

6-7 seen hunting over tundra - between Amik park (= Inuk lake) + Beach Ridge. All scattered, occasionally sitting. What appeared to be localized pair (defending against other birds - advertisement from ground - oft 2 sitting together) seen all along beach ridge from AACs to Wohlseh bluff - also on bluff - also on ~~bluffs~~ ^{bluffs} & in Central Marsh. No flocks noted - most single or pair - often hunting.

5 June Not as common this am in Voth - Lendel - areas - several localized immatures noted - no chasing or displaying. Fewer immatures.

See along beach ridge - only 1 on Pitelko's Plot - also several others flew over

6 June Several ⁽³⁾ seen along north beach ridge & flying over Central Marsh. - some also, EIS - lagoon. First & last phase of this evening.

7 June At least 2 settled pairs along east side of BR - (one near Dr^N corner - one opposite Stobe 3.0.4.0 on Pitelko's Plot). One attempt at copulation noted but ♀ resisted by raising head & "snapping" at ♂ as he hovered^{or} & (I think) stood on her - He settled 1 time - she cocked her tail - he again tried to mount but she did not allow him to settle.

8 June 2-3 settled on north beach ridge - settled locally chasing & advertising (ground cover, etc.)

RTT+
1964

S. pomarinus

2.

9 June Barrow, Alaska

Numbers are decreasing - very few are locally settled & those seen are primarily on the move. No courtship or defending-type behavior has been noted in the last 2 days.

11 June No settled or defending birds along the beach ridge (north or east). - Several (8+) wandering birds hunting along the ridge.

12 June During morning along No. beach ridge - only 3 seen - 2 were moving along the ridge toward the east. The other was sitting - a small mound on the edge of C.M.

16 June Scattered birds still settled - one - north edge of central mound - below 3 barrels - 1 on polygons - east of the north end of P. teluk's Plot.

19 June Nest with 2 eggs, 75 yds west of gaswell road, 200 yds south of North Area. Both adults - light phase.

20 June Nest with 2 eggs - 200 yds west of gasline - So. of beach ridge in low polygonal & pond-dotted area. - both light phase adults.

25 June 1 Nest near where wannagin used to be at Ikroavik & one - about 100 yds west of Stike 110 - another pair located SE of 25.0 - but ranging over the southern end of the plot. Others along east side of Ikroavik.

RTH
1964

S. pomarinus

28 June Barrow, Alaska

Group 14 moving south over beach
ridge at 75' ~~at~~ height. Loose
flock.

Holmes, R.
1959

Stercorarius parasiticus

11 June Barrow, Alaska

One seen in and near the drum area at 2000. It would fly with its head pointed down and occasionally would turn and land on an exposed area of tundra.

It was never seen to pounce on anything or pick up anything, but apparently it was looking for food. After about 10 min. it left the area in the direction of the sea.

19 June Barrow, Alaska

A pair seen along the beach ridge, east of the gas line. They were seen in a chase and proceeded to head northward. They were not seen during the ~~past~~ remainder of the day.

21 June Barrow, Alaska

One bird seen crossing the beach ridge near the gas line.

25 June Barrow, Alaska

A pair was seen just N of the East Census Area along the shore of Elson Lagoon. They appeared to be feeding.

26 June Barrow, Alaska

One seen near gasline on beach ridge.

Holmes, R.
1954

Stercorarius parasiticus

2.

7 July Barrow, Alaska.

A pair was seen on the east slope of the black ridge near the census area. They were sitting on the ground, but no activity was noted. (Another pair was seen just N. of the east census area along the shore of Elen lagoon. They were seen feeding on some bird, as when they left this was looked into. It turned out to be part of a back of a female eider. They had been seen near it, but apparently it was not fresh enough as they moved on. This pair was joined by a third bird which was in dark phase. The three then began moving along the lagoon.

8 July Barrow, Alaska

One seen flying near the south end of Middle saltwater lagoon.

16 July Barrow, Alaska

Two birds seen separately near Wohlsehlog's Slough. One was a dark phase. No breeding activity was noted. These were along the slough, not where they were seen before.

Holmes, R.
1959

Stercorarius parasiticus

3.

5 August Barrow, Alaska

Two seen near Nuwak harvesting
Soviet Gulls and Kittiwakes.

11 August Pitt Point, Alaska

Three (1 dark phase) were seen
just SW of the base.

16 August Pitt Point, Alaska

One seen about $\frac{1}{2}$ mi east of
the base. It was flying high
and direct towards the east.

27 August Barrow, Alaska

Two seen over the Beach Ridge
in the late evening.

Holmes, R.
1966

Stercorarius parasiticus

30 June Iktroavik, Alaska

1 seen flying east over the pond
in front of the warehouse. It was
attacked by several pomarine
as it passed through. - dark phase

1 July - another(?) dark phase bird seen
near the south end of the plat. It
was also attacked by pomarines.

24 July Barrow, Alaska

1 seen on Blackman's Island - east
of the pass.

Holmes, R.
1961

Stercorarius parasiticus

10 June Barrow, Alaska

1 light phase seen feeding on insect larvae?
(at least pecking frequently at the ground) - No.
of both's area.

13 June 2 seen flying across census plot at Ikroavik

17 June 1 seen, being harassed by 6 phalaropes
along the B.R. census plot. - light phase

24 June One seen in company with 2 long-tailed
jaegers along the Beoth ridge. All 3 birds
were standing on the ground, walking back
& forth pecking at the vegetation (or in 1 case
an old piece of newspaper). Finally a
long-tail picked up an object - which looked
like a clod of dirt or moss & attempted to
swallow it. The other long-t. & the parasite
both tried to take it away from the
possessor by fighting - with a tug-of-war-
like process. Finally, the 1-t. swallowed
it & all three birds flew off - this may
have been a dead or dying carcass.

25 June 2 dark phase seen along Pitelko's plot.

27 June 2 birds, 1 dark & 1 light - seen with
a flock of 10 long-tails on the Ikroavik
plot.

5 July 2 seen by Sullivan near Voth -

7 July 2 dark phase hunting along ridge
N+E of Ikroavik Lake. Not seen to land
or take anything - but would soar

Holmes, R.
1961

Sternomarius parasiticus

- 7 July Barrow, Alaska
back & forth over Theundra, gliding low
& then around in circles & back & forth.
- 9 July 2 - dark phase seen flying low
along Wohlsehlog Slough at its
inner end. -
- 11 July 2 in light phase seen flying over The insect
plot.
- 13 July 2 light phase seen flying along
Wohlsehlog Slough. Two were again
seen near Voth's Slough.
- 16 July 1 seen near Voth's area
- 19 July 2 dark phase, so. of Wohlsehlog Slough.
- 21 July 3 " " " " " same place, #1
near the coast just west of the camp.
- 23 July 2 seen near the insect plot, 1 near
Elson-Wohlsehlog.
- 26 July 2 seen near the No. end of Shovvik.
- 17 Aug 2 dark phase seen flying over central
marsh - one light phase seen flying
over the Bokyn plot.

Holmes, R
1962

Stercorarius parvirostris

12 June Barrow, Alaska

1 seen near EISC lagoon

14 June 1 at the south end of the lake - 1 near Ikroavik - 1 dark + 1 light phase in the gas-line - crossing area of beach ridge

16 June 3 in light phase seen 200 yards west of EISC lagoon - w. 1 wobbleslag slough

19 June 3 seen where gasline crosses beach ridge.

20 June 3 seen over the north sector of the Ikroavik plot.

23 June 1 dark phase seen near receiver site.

24 June 3 light phase flying high over pond - No. 1 Ikroavik + 1 dark + 1 light seen near British House

26 June 1 on B.R. at gasline - 1 near insect plot both light phase.

29 June 2 near insect plots.

1 July 1 Dark phase hunting actively E of Voth. House
This probably is the individual that cleaned out the Auklet Sdg. nest!

2 July Groups of 3 along the Ikroavik insect plot

4 July 2 (1 dark, 1 light) flying E over wobbleslag slough.

5 July 4-5 seen flying over the Ikroavik plot at different times - in groups of 3 + 2 separate sightings - all appear to be hunting.

Holmes, R.
1962

Stercorarius parasiticus

2.

7 July Barrow, Alaska

Two seen over the D.R. - near the magnetic station & one was hunting over the insect plots. It seems that these birds are probably taking a large number of shorebirds - eggs & / or chicks - since they seem to cruise over a large area & a number of nests have been lost - presumably to this predator.

8 July

One black phase by Fresh Lake at 1400 -
2 black phase on beach ridge near gasoline at 1600. One light phase flying with 2 long-tail near the Charles Sog nest - near Wobleschlag.

9 July

Several on the Skroavik census plot & along the south shore of the lake.

21 July

One dark phase flying high over insect ridge - moving E. 1st one seen in 1 1/2 weeks.

25 July

1 N. of magnetic station & the Beach Ridge

28 July

Two seen south of Wobleschlag slough - 1 dark & 1 light - both hunting. In flying low over the tundra - circling around.

30 July

1 flying west over Central Marsh.

12 Aug

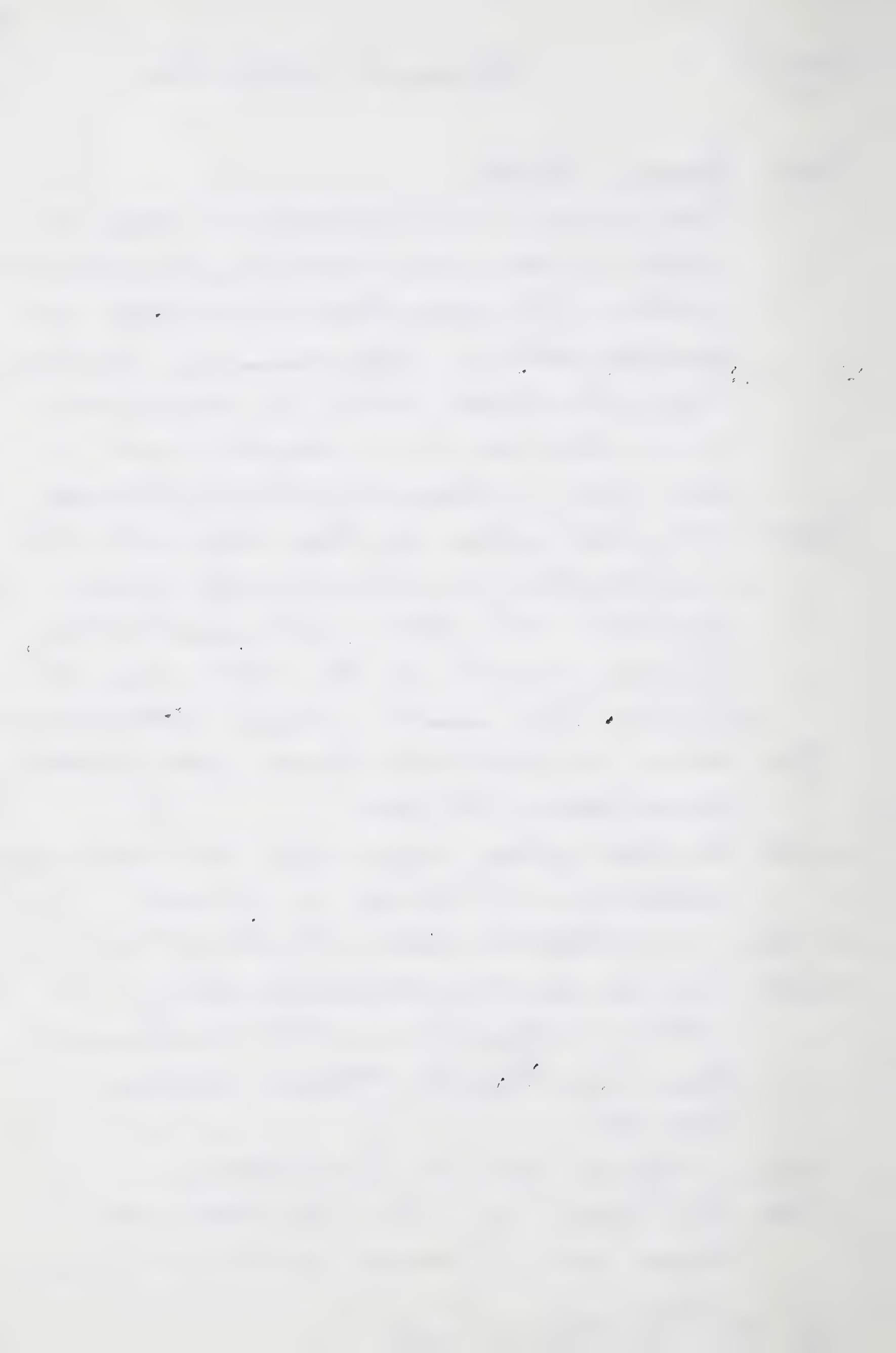
6-8 seen in the No. Voth - Voth Marsh area (3 dark & at least 3 light)

13 Aug -

2 new insect plots

15 Aug

1 over Inupiat Lake - 1 over Central Ridge



Holmes, R.
1962

Stercorarius parasiticus

13 Aug. Barrow, Alaska

2 seen south of gulch ridge in the morning &
4 were flying over N. side of area in the
afternoon. all were hunting - probe
lemmings.

14-15 Aug - see previous page.

27 Aug - 1 dark - 1 light seen low over tundra,
south of gulch ridge

Holmes, R
1963

Stercorarius parasiticus

15 June Barrow, Alaska

One seen flying south over drum area

16 June One dark phase - fly south over beach ridge.

17 June Two birds moved south along Ikroavik census plot.

18 June One individual seen north of census plot - seemed to be chasing a wandering pomarine.

20 June 4 birds milling around light (300+)' - in air - N. of census plot - some chase involved - couldn't tell what was going on.

23 June One flying across beach ridge & into central marsh

26 June One dark phase near Elson Lagoon - C. S. display area.

3 July 1 flew over plot at Ikroavik

8 July 2 with flock of 12 long-tail - feeding a adult leucophaea - near treeline IV A-B.

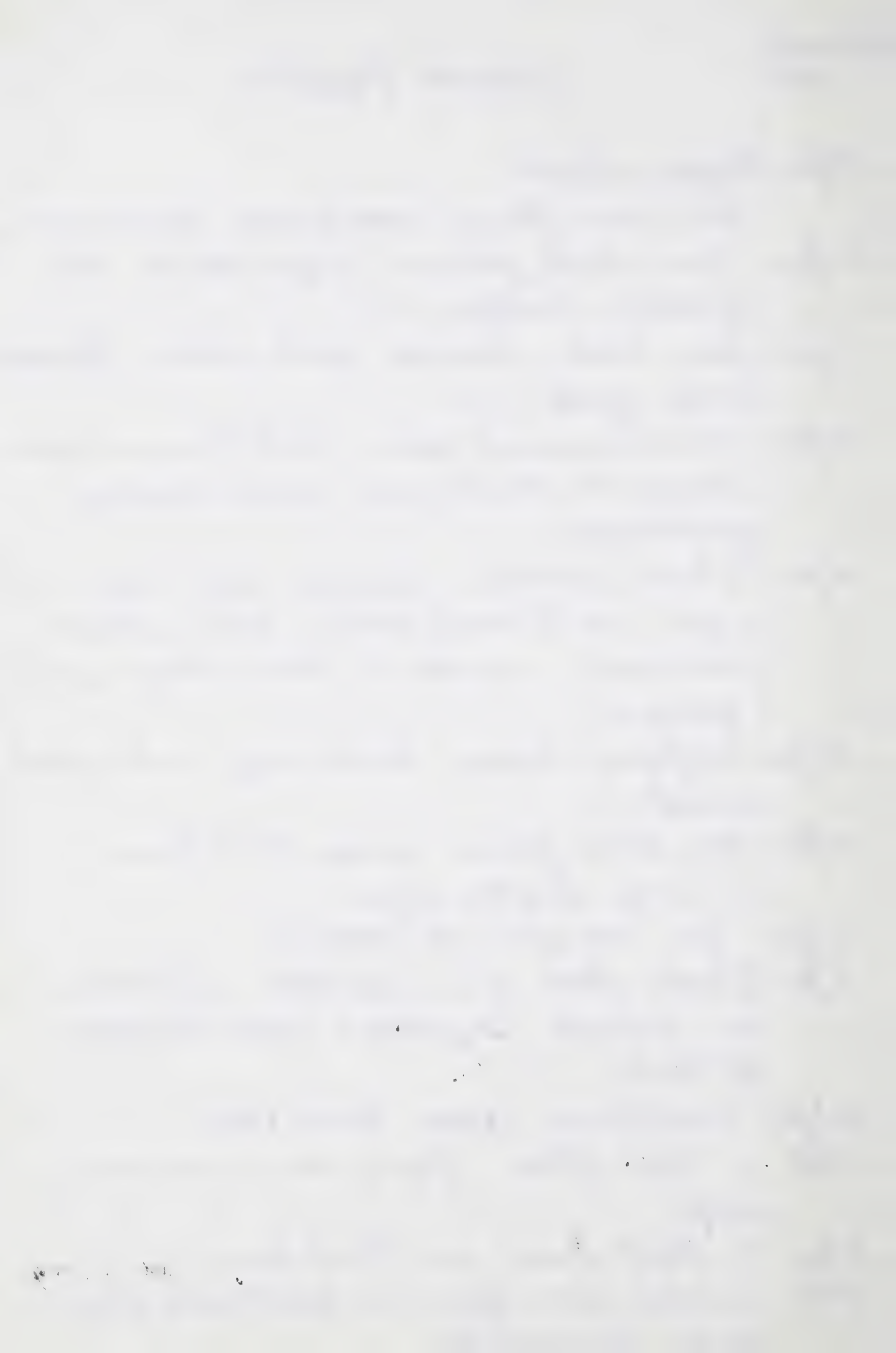
22 July 1 dark phase along Fresh Lake.

24 July 1 light phase flying over north beach ridge.

6 Aug 1 light phase so North Area.

15 Aug. 1 dark phase flying over Wrabblers plot - near the crossing.

23 Aug 1 light phase flying across North Area - hunting.



Holmes, R.
1964

Stercorarius parasiticus

20 June Banno, Alaska

1 dark phase hunting along No. Berel Ridge.

22 June " " " " " " " " " " " "

23 June " " " " " " " " " " " "

26 June " " " " " " " " " " " "

27 " " " " " " " " " " " "

+ 3 light phase together " " " " " "

Holmes, R.
1959

Stercorarius longicaudus

23 June Barrow, Alaska

One bird seen flying over the east census plot-area near Elen Lagoon. It called hoee and was more shrill than the Pomarine Jaeger. Another bird was seen in Central marsh later in the afternoon.

7 July Barrow, Alaska

One (+ 1 unid. jaeger) seen near the traplines in Central marsh. The wing beat is noticeably faster and they appear darker on the posterior end.

16 July Barrow, Alaska

One seen on the west shore of Elen Lagoon in the East Census area.

20 July Barrow, Alaska

Three seen near Nuwuk harassing a kittiwake.

31 July Barrow, Alaska

One seen just so. of Freshwater Lagoon sitting on the tundra.

5 August Barrow, Alaska

One seen near Nuwuk.

26 August Barrow, Alaska

One seen sitting on the beach ridge.

Holmes, R.
1960

Stercorarius longicaudis

24 July Barrow, Alaska

One seen on deadman's island -
east of Eleuthal Pass.

3 August - 1 seen along the edge of
salt lagoon in the gravel area.

Holmes, R.
1961

Stercorarius longicaudis

17 June Barrow, Alaska

1 seen, being harassed by phalaropes - near
gas line ridge.

20 June 1 seen near Ikroavik

24 June 2 seen with a parasitic paper on The B.R. (see
parasitism). 1 individual seen flying
No. over Wohl-slough.

27 June Barrow - Ikroavik, Alaska

A flock of 10 seen sitting & flying on
the plat. One bird was pecking at
a mummified lemming - when
it refused to leave until I
was less than 10' away. The
mummiel seemed too far gone to provide
any food value - so again it looks
like the birds are scavenging.
They may be taking bird eggs!!

9 July Flock of 7 individuals feeding at
the south end of Wohl-slough. We
have been picking insects from the
grass(?). Chamberlain reports a
flock of 40+ at the south end of
central marsh - 2 were collected.

11 July 4 seen near the insect plot. All stomachs (2)
had myriads of adult crane fly remains -
so his hawking behavior is apparently
to catch insects.

Holmes, R.
1961

2.

Stercorarius longicauda

13 July

Barrow, Alaska

5 were in Footprint Lake, feeding on insects & just sitting. 2-3 were flying around over Voth's Slough. 1 seen near the insect plots.

Holmes, R
1962

Stercorarius longicaudus

29 June Barrow, Alaska

2 seen feeding on the grassy slope of barrel ridge - appeared to be taking Ad. Tipulids.

30 June Flock of 85 on the east side of Central marsh - feeding on the marsh - probably on Tipulids - or at any rate on insects.

1 July 5 seen west of Footprint - along Red Rock Ridge

4 July 4 in Central marsh. - feeding on the ground.

5 July 1 seen flying over So. end of Ikroavut Plot

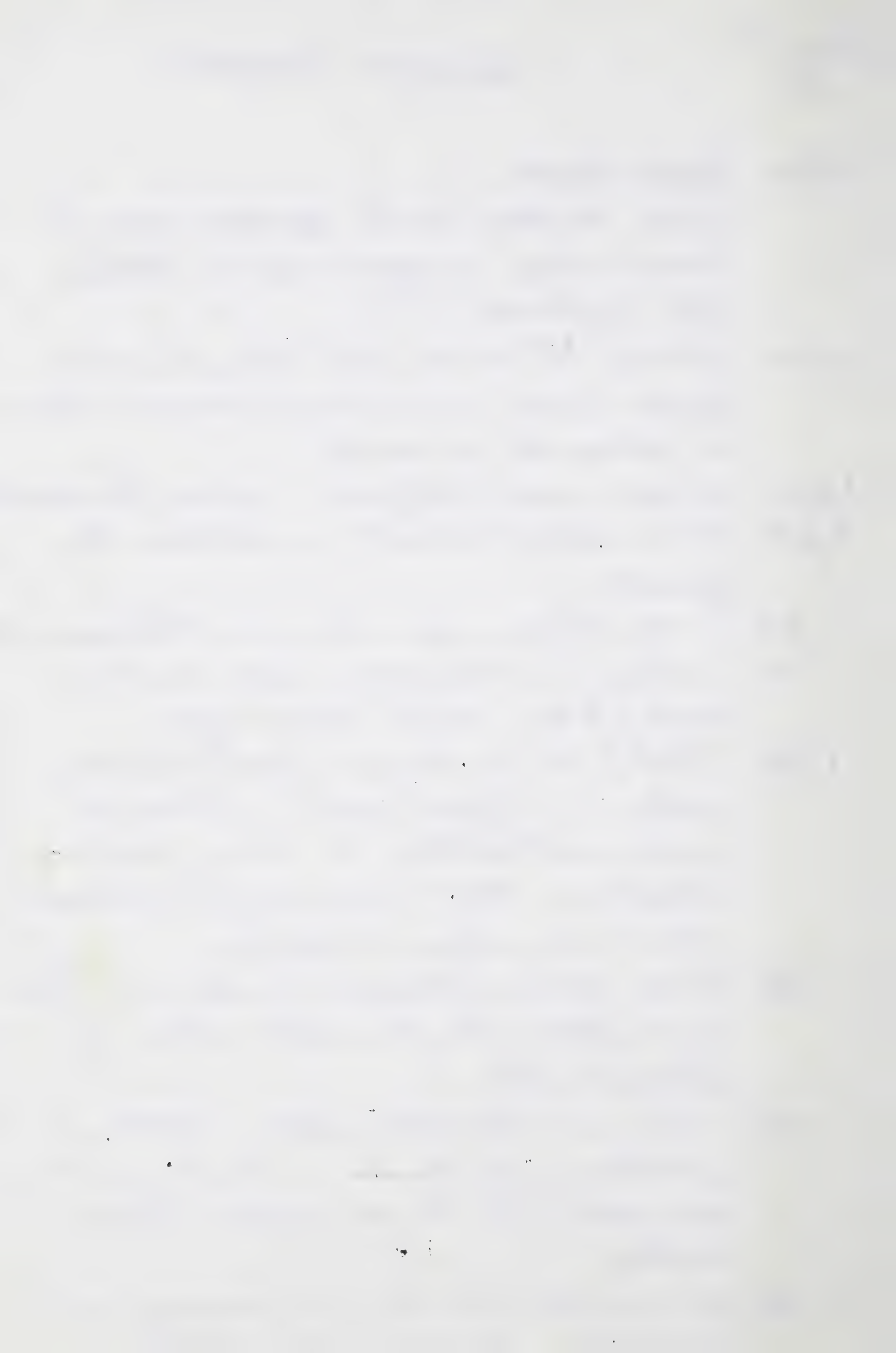
6 July 3 flying over drum area; loose flock of 30 east of B.R. - near Elsa Lagoon.

8 July Flock of 34 on marsh east of barrel ridge - 2 flying west - Parovoti near Woblesby + 6-8 in Central Marsh - most were on the ground - several were flying & hunting.

9 July Small numbers (groups of 3-5) seen on the Ikroavut inner flat + along the south shore of Ikroavut Lake.

11 July 120+ near Meadow Lake - sitting & walking on the tundra. Another 6-8 seen east of the barrel ridge - flying & hunting.

12 July 66 - on flats N + NW of warmer at Ikroavut. 6 seen on the plate. 6 more flew over with one during the P.M.



Holmes, R.
1962

Stercorarius longicaudis

14 July Barrow, Alaska

30+ east of beach ridge - half way to Elson.
10-15 along the west side (central marsh
side) of B.R. + small groups of 2-6
birds seen near Voth + Insect areas.
These birds seem to be almost
everywhere - seen sitting - walking +
apparently feeding - insects or flying +
hunting.

16 July 30-40 - 80 of footprint + several near the
plab.

19 July None seen today or during the last two days.
All seem to have departed.

21 July 3 seen over the No. Voth Area. - flying high -
apparently not hunting.

24 July 4 birds - 1 mi apart fly NE over the
Voth Area + over marsh.

25 July Three individuals seen scattered between
Beach ridge + Elson lagoon.

26 July Two seen flying near Voth Area - caused
Dunkles who were feeding on open block mounds
to run + crouch in tall grass.

28 July One seen so. of Woblesby bog.

30 July 1 in central marsh.

31 July 3 flying high over insect area

1 Aug 2 in Footprint Lake - 2 on west plot -
all were flying low, hovering + apparently
hunting.

Holmes, R.
1962

Stercorarius longicaudis

3.

2 Aug Barrow, Alaska

4-5 individuals hunting between
Cokeater (VOR) Road + insect plots. —
most were hovering 30-60' above the
ground. There seems to have been a
increase in jagged activity during the last
3-4 days.

6 Aug 3 seen over insect plots — flying high.

13 Aug One " " " " " " " " low
probably hunting.

18 Aug 4 seen between Beach Ridge + Elson Lagoon —
all were flying low + hunting — two were
seen + heard for 20-30 min.

Holmes, R.
1963

Stercorarius longicaudus

11 June Barrow, Alaska

Two flying west along beach ridge -
one bird calling.

21 June One being chased by a Pomarine across
census plot.

2 July Three flying high over insect plots

8 July Flock / 12 (+2 parasites) near Trepeline IVA-B.
feeding in grass - probably after adult
typhoids. Another group / 6 - north /
insect plots.

9 July Flock / 9 near Ikroavut plot, - 1 indiv.
flew over the plot.

12 July Group / 3 near the insect plot - NW / 10th.

13 July 2 flew over Ikroavut census plot

14 July 1 flock / 6, south / south salt lagoon, 1 / 8 near
insect plots.

17 July Several groups / 6 - 58 - near Ikroavut.

The large group of 50+ was at the
mouth of the lake + all were milling
around in the air at one point but
then they scattered + settled in the
tundra - probably feeding on typhoids.

18 July 11 - a 1 flock near insect plots - feeding
in grassy areas.

20 July Flock / 10 flew across census plot - Ikroavut,
Group / 25 - 1/4 mi north of Ikroavut
Lake

22 July 8-10 along Fresh Lake

Holmes, R.

S. longicauda

12 Apr Barrow, Alaska

4 flying, west over Wohlseh's flat - new
crossing.

Holmes, R.T.
1964

Stercorarius longicaudus

15 June Barrow, Alaska

2 flying over north beach ridge.

20 June 3 long-tails flying over north beach ridge.

Holmes, R.
1959

Larus hyperboreus

4 June Barrow, Alaska

These gulls are seen congregating near the garbage dump, S. of the base. Their calls can be heard at a great distance.

5 June Barrow, Alaska

Several noted flying over base

6 June Barrow, Alaska

6 seen near dump in the evening

9 June Barrow, Alaska

2 seen in the dump area

13 June Barrow, Alaska

Several seen flying over the dump area and the drum area.

14 June Barrow, Alaska

About 10 seen over the dump.

15 June Barrow, Alaska

Three seen in the drum area as they flew over the jaegers. One was observed to land close to a jaeger, which forced the jaeger to move to another mound. These gulls were evidently hunting. One picked up a lemming, and the other two immediately joined the other, and a fight took place. The original gull, however, took off and was able to swallow the animal before the other two took it away. The gulls then resumed their roving over the tundra.

Holmes, R.
1959

2.

Larus hyperboreus

15 June Barrow, Alaska

Several seen during the afternoon flying through the fog. As they did so, they called loudly and could be heard long before they were seen.

25 June Barrow, Alaska

A pair were noted near the south end of the beach ridge near Wohlseh's Lagoon. They were making various noises which sounded as if they could be nesting.

5 July Barrow, Alaska

Several seen near Nuuk and to the eastward along the sand spit.

6 July Barrow, Alaska

Three seen flying over the tundra near A.P.C.S.

7 July Barrow, Alaska

Two seen flying over the drum area during the afternoon. One was molting in the wings.

14 July Barrow, Alaska

One seen near the dump near the base and about 6 were along the west side of the middle salt lagoon. None were seen along the ocean.

Holmes, R.
1959

Larus hyperboreus

3

19 July Barrow, Alaska

Several individuals seen along the ocean between ARC and the village. The majority were sitting on the water, but a few were noted flying.

20 July Barrow, Alaska

Several seen between base and Newok.

25 July Barrow to Wainwright, Alaska

Many groups of these gulls were seen along the coastline. Some were settled on the lagoons, others on the ocean while others were flying around. Most of these birds seemed to be adults, however, there were a few 2nd and 3rd year birds.

28 July Barrow → to Pitt Point, Alaska.

Many small groups were seen along the ocean edge. There were many of the 30-40 bird size.

31 July Barrow, Alaska

15 seen at mouth of Wohlsehley's Slough. These consisted of Adls. and Imm. Both were molting.

5 August Barrow, Alaska

Large groups of adults and immatures were present along Elsa lagoon towards Newok and the pier.



Holmes, R.
1958

Larus hyperboreus

4

19 August Barrow, Alaska

8 individuals seen flying along the shores of middle saltwater lagoon. Many others were present along the ocean front.

24 August Barrow, Alaska

Numerous individuals and small groups (2-8) have been seen during the last few days along the ocean front at the base and in Freshwater and Middle Saltwater lagoon.

27 August Barrow, Alaska

Many seen on the way to Mount. Most of these are adults, however, a few 2nd & 3rd year birds are mixed in.

31 August Barrow, Alaska

Several birds are always present along middle saltwater lagoon. There are adults & 3rd year birds.

5 Sept. Barrow, Alaska

Two seen flying near Voth's Area

Holmes, R.
1960

Larus hyperboreus

28 May Barrow, Alaska

8-9 gulls seen along the beach ridge and central marsh. They were seen standing on the exposed tundra, and presumably, they were feeding on lemmings. One was not observed, however.

29 May. Barrow, Alaska

11 were present at Footprint Lake which scattered individuals + groups of 2 + 3 were seen elsewhere.

30 May Barrow, Alaska

6 were seen standing on the tundra just north of Voth's Area - no feeding activity was seen.

31 May Barrow, Alaska

19 were present on the beach ridge. One was observed with the lemming on its bill.

1 June Barrow, Alaska

In the afternoon, 6 were seen along the beach ridge near the beverage antennae.

2 June Barrow, Alaska

One was seen near Footprint Lake and one was found dead in a fox trap, north + west of Ikroovik.

Holmes, R
1960

Larus hyperboreus

2.

3 June Barrow, Alaska

4 seen sitting on Elson Lagoon this morning, but no others noted. The group which has been on the beach ridge are now gone.

5 June Barrow, Alaska - Innam River

On a marshy flat near the edge of a lake, about 3 mi N. of the Innam River, a gull nest was located. It was a mound which had been built up to a height of about 4-5 inches and contained small pieces of dried grass + sedge. No eggs had been laid, but the adult was present.

7 June - 2 seen on the Beach Ridge near the census plot.

26 June - a flock of immature birds (mostly 3rd year, 1 or 2 darker immatures - 1st or 2nd yr?) were seen sitting on the ice on the lagoon south of salt lagoon.

17 July Ikroavik, Alaska

One adult + chick reported by Carser near the south end of Ikroavik.

24 July Barrow, Alaska

4 flock of 3rd-yr immatures seen sitting in the hood of the hooded murre.

Holmes, P.
1960

Larus hyperboreus

3.

24 July Barrow, Alaska

Island - east of Elkutuk Pass.
Occasionally, other birds were seen flying - in the same area.

31 July - A few seen near Tapkuluk Island (east of Rodman's Island).

3 August - A nesting site was found on a lake-located about half way between dry lake & low lake (just so. of our nest #13). The adults were present, and both became excited at our approach. The ♂? dived at us several times during the first few minutes, but then finally resorted to flying high and giving his loud gut-like cry. One chick was seen in the lake but was inaccessible. The lake itself was about 100 yards long & 75 yards wide. The nest was located on a small island (5' x 2') about 25 feet from the west shore. It was composed of dried grasses which form a depression. The pellets were picked up for analysis. It appeared that they may have been feeding at the camp during

Holmes, R.
1960

4.

Larus hyperboreus

3 August Barrow, Alaska

Since bones resembling chicken bones + seeds (like plum pit) were found. Another nest site was seen several miles south of Antler Lake; this one had 1 young. Another mouse nest. Three young was seen No. 1 Antler Lake. These last 2 nests were located on small islands in the middle of the lake + were therefore impossible to visit.

16 August Barrow - Cape Lisburne, Alaska

Scattered birds were seen all the way along the coast from Barrow to Lii A. There were mostly adults, but a few birds of the year were seen. See journal pp. 54-57 for the description of the gull colony on Iqsewik Lake, inland from Cape Lisburne.

21 Aug Barrow, Alaska

Three seen sitting on the tundra north of Footprint Lake. They were not seen to feed on lemmings while I watched them.

Holmes, R.
1960

Larus hyperboreus

5.

25 Aug Barrow, Alaska

One seen along Freshwater
lagoon. (Adult)

27 Aug Barrow = F.H. Point, Alaska

Numerous individuals seen at
the site at F.P. South
of this area about 5 miles
a pair of adults + 2 (flying?)
juveniles were seen sitting
on a pond. The nest site could
be seen on a small island
near the center of the pond.

3 Sept Barrow, Alaska

Two seen standing on the tundra,
north of Footprint Lake.

Holmes, R.
1961

Larus hyperboreus

3 June Barrow, Alaska

4-5 adults seen sitting in the snow or flying - near the magnetic station on the beach ridge. No feeding activity noted.

4 June - 2 seen near Voth's area.

5 June 4-5 were seen in central marsh. One had picked up a lemming carcass, & the others were trying to take it from him. Finally, the bird flew off with the animal in its beak & landed near the weasel. When flushed, the lemming dropped & upon examination it was found that the carcass was an old dead up - partially skeletonized lemming - seemingly of no food value.

7 June Several adults seen in central marsh.

9 June 2 seen - Footprint Lake - 1 Ad - 1 3-4 yr. indiv.

11 June 1 seen feeding on lemming on the west side of central marsh. Three others seen flying over the marsh.

20 June 1 seen near Footprint Lake

24 June 2 seen (1 4th yr.) in tundra south of Wohl. Sl.

13 July 50-60 seen So. of Voth's Slough - almost all Footprint where they were feeding on insects - which were on the carbon remains. Most were 3rd or 4th year birds, but a few Ads. were present.

21 July Flock of 150± seen just north of the insect plots, - sitting - polygamy - colonies

Holmes, R.
1961

Larus hyperboreus

27 July Barrow, Alaska

125+ seen sitting on tundra, No. 1 the insect
plots - all were 1st or 3rd yr birds.
No feeding was seen.

28 July - Gull Lake - Cape Lisburne, - see journal.

31 July - 150 seen sitting - the ridge No. 1 & 2
insect plots.

9 Aug 100 seen " " " " " " " " " "

Some 3-4 yr birds were wing
moulting.

Holmes, R.
1962

Larus hyperboreus

28 May Barrow, Alaska

Several seen around the bank in the drummen

30 May

5 or 6 small flock of 11 on the frozen
pools near Br. Han's area

1 June 2 seen near Elson Bluffs.

2 June 3 seen behind ARK. 2 near Elson Lagoon

3 June Several " "

5 June 12+ near Br. Han's area - (incl. 2-3 yr. olds).

10 June 12+ seen along middle salt lagoon & the
gravel ponds.

14 June Several flying near Dry Lake, Toolik
Lake. & several flying west across the
census plot at Ikroavik.

16 June Flock of 22 sitting on the tundra - S. of 100th
Ave. [20 on Central marsh - June 13].

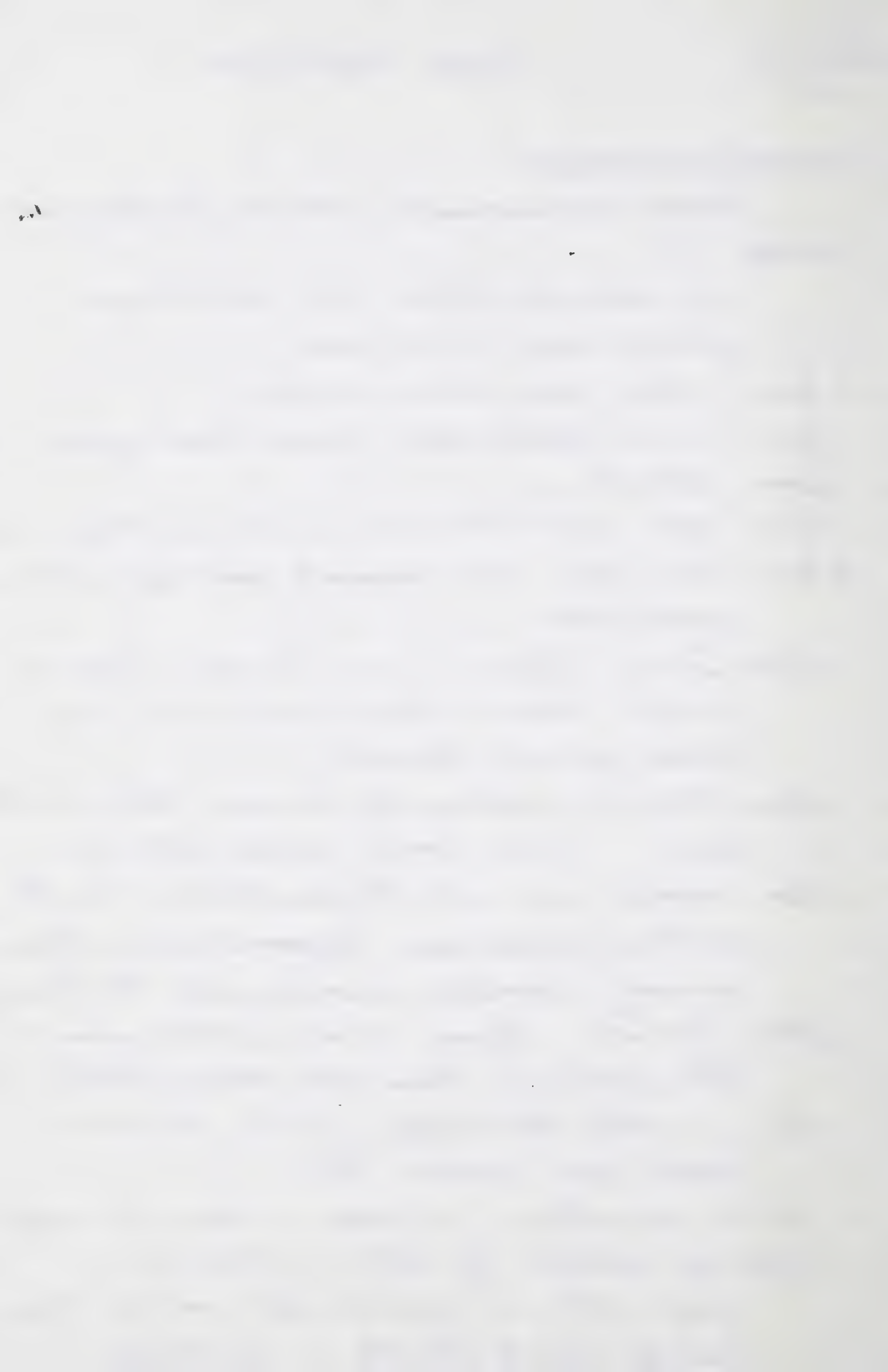
21 June Several seen at Ikroavik Lake - 1 with
molt in primaries. - (apparently been 8 days
immature - probably molting into Ad. plumage).

5 July Two ^{seen} flying along west shore of
Ikroavik & 1 flew over census plot

6 July 6 - white individuals [3rd yr] - on Central
marsh - new curve in B.P.

11 July 6 immature c tundra - east of b. ridge -

25 July large numbers of Adult & immature
gulls sitting on gravel bar in Elson Lagoon
just off Brant Point - probably
4-500.



Holmes, R.
1962

Larus hyperboreus

14 Aug Barrow, Alaska

30 - 3rd year birds section - Lander No. 4
Voth! Area.

Holmes, R.
1963

Larus hyperboreus

28 May Barrow, Alaska

One walking around the tundra, south of the village - presumably hunting lemmings.

Two seen standing - snow - on north side of Wobl. slough - 1 flying over tundra near oolipik slough.

29 May Two seen flying over mouth of Wobl. slough + 2 flying in drum area. Two flying south along Ellis lagoon near Brant Point.

30 May Three flying along family lagoon.

1 June 4 on family lagoon bathing in ice-pool.

2 June Four flying over Ikroavut census plot + 1 seen a mile east of gas well - standing on tundra near 2 Pom. Jaegers.

11 June 5 flying northwest over beach ridge - towards family lagoon.

17 June One attacked by 2 (singing) Pom. Jaegers near Ellis lagoon.

6 July Group of 12 3rd-4th year birds sitting on tundra - 10 yds N. of insect plot.

8 July 3 flying over NACS.

12 July 13 immatures on tundra south of south salt lagoon.

18 July Scattered immatures (20+) on tundra south of South salt lagoon.

14 Aug Group of 18 on tundra south of So. salt lagoon.

Holmes, R.
1964

Larus hyperboreus

4 June Barrow, Alaska

6 in Drum area - probably feeding at a
dump - 2 in Central marsh

5 June 1 flying over Brittons area.

11 June 1 flying over central marsh.

20 June Group 1 20+ along S. shore of Fred Lake

27 June 9 on Fred Lake ^{on} ice

Holmes, R
1954

Xema sabini

17 June Barrow, Alaska

Several seen along the Meade River and Colville Delta as we flew over.

30 June Barrow, Alaska

One seen on freshwater lagoon.

5 July Barrow, Alaska

Four seen about 2 miles east of Nauyasuk on the sand bar. They were sitting on a cake of ice and no activity was noted.

15 July Barrow, Alaska

One seen in Ikroavik lake on the edge of the ice.

3 August Colville Delta - Point - Alaska

Many seen near Thelus Island of Point and several in the vicinity of the fish camp - The Colville Delta.

5 August Barrow, Alaska

Many hundreds present along Elson Lagoon from the Duck Camp to the Pass. Both Adults + Immatures were present. Several were being chased by jaegers.

Holmes, R.
1960

Xema sabini

23 June Iktroavik, Alaska

1 seen flying northward along the census plot.

1 July - 2 seen flying northward over the southern end of the plot.

9 July - 1 flying north over the plot.

12 July - 2 seen flying along the east shore of Iktroavik

24 July Barrow, Alaska

Numerous birds were seen at Heedman's Island. The majority were feeding along the lagoon edge - in the lee of the island, but a few were among the numerous trees on the island & were breeding. At least 3 nests were found. These consisted of a few small pieces of sticks or grass placed in a cup in the sand among the driftwood. One nest had 1 egg, one had 2, & a third had 1 egg which had been cracked & which contained a dead well-developed embryo & a dead hatched chick, laying about a foot away. Several other depressions were found which appeared to be old-nests or

Holmes, R.
1960

Xema sabinii

2.

24 July Barrow, Alaska

deserted nests. Several of the birds feeding were in various stages of molt.

26 July Iktroavik, Alaska

A pair was noted at the entrance of the main slough into Iktroavik (NE of the navigation). They were exceedingly excited, for they had 2 chicks, one of which was collected. They must have bred in the area, but no signs of them had been seen here previously. The young were at least a week old.

31 July Barrow, Alaska

A few noted near the boat as we passed deodma's Island. None were found nesting on Tyskaluk.

6 Aug Barrow = Iktroavik, Alaska

The pair at the inlet to Iktroavik were still there, and their one remaining chick is now flying. Three adults were seen along the ocean near camp on the return trip from the lake.

Holmes, R.
1960

Xema sabini

3.

16 Aug Barrow = Cape Lisbourne, Alaska

Numerous birds seen flying along
the gravel bars between Wainwright
& Liz A. Many were immatures.

18 Aug Barrow, Alaska

Several adults + immatures seen
near the shore near the village.

21 Aug Barrow = Iktroavik, Alaska

1 seen near Iktroavik. (Immature).

Holmes, R.
1961

Xema sabini

13 June Barrow-Ikroavik, Alaska

2 seen in the vicinity / North slough at
Ikroavik.

20 June 1 seen near the inlet with N. end of
Ikroavik

31 July 3 Ads seen flying low over Voth's Area.

Holmes, R.
1962

Xema sabini

18 June Barrow, Alaska

One individual seen on the gravel pond -
Voth & Barrow Road junction.

20 June 1 see flying N. - near Ikroavik camp place

9 July 6 birds - nests - about 20' apart in
mounds - large encampment at S.
end of Ikroavik.

25 July 100-150 on water or fishing off Brant Pt. -
in Elsa Lagoon

3 Aug 3 see flying North over Fertilizer Plant

Holmes, R.
1963

Xema sabinii

5 June Barrow, Alaska

One seen + collected along EIS in lagoon,
north of Wobleshlog.

7 July One - census plot - at 10.0 - flying
along stream.

Holmes, R.
1964

Xema sibirici

25 June Barru, Alaska

7 birds sitting in nests on ^{islands in} large lake - south of
Ikroavik (200 yds - west of inlet + 100 yds south
of lake) - Birds seem to feed out along
the shore of Ikroavik & along the channel where
drain into it.

Holmes, R.
1959

Pissa tridactyla

9 July Barrow, Alaska

Five birds seen flying over the sand spit between middle salt lagoon and the Arctic Ocean. One was molting and they all were adults.

16 July Barrow, Alaska

Three seen flying N.E. along the coast in front of the base.

20 July Barrow, Alaska

Three seen between base and Nuuk. One was harassed by a Long-t. Jaeger.

5 August Barrow, Alaska

Many adults and immatures were seen between Nuuk and the Pass.

31 August Barrow, Alaska

6 adults seen flying along the shore (S.W.).

Holmes, R.
1962

Rissa tridactyla

25 July Barrow, Alaska

Flock of 6 flying along coast of Elson Lagoon
near Brant Point. - all adults

Holmes, R.
1959

Rhodostethia rosea

8 June Barrow Village, Alaska

One single individual seen about $\frac{1}{2}$ mi So. of Barrow Village. It was a small gull with a light gray mantle and red feet. The black ring and rosy color were lacking. It was observed for about a minute and then disappeared - apparently into the ice where it could not be detected.

11 June Barrow, Alaska.

One reported by F.A.P. along the beach ridge in the evening.

Holmes, R.
1959

Sterna paradisaea

17 June Calville Delta, Alaska

Several seen as we flew over.

18 June Barrow, Alaska

One seen 50 yards to the drum area.
It circled around several times
and then headed across the salt
water lagoon to the N.W.

23 June Barrow, Alaska

One flying and calling over the east
census area.

25 June Barrow, Alaska

One seen flying over the beach ridge
in the vicinity of the census area.

30 June Barrow, Alaska

One seen a freshwater lagoon and
was soon joined by a second
bird. They rested on the gravel
bar and then flew off.

2 July Barrow, Alaska

Three seen over No. meadow lake
flying to the N.W.

5 July Barrow, Alaska

Several were seen in the company
of two Glaucous Gulls in the vicinity
of Newok, and one was seen
at the east end of the sandspit
near Newok. Feeding activities
were also seen.

Holmes, R
1959

Sterna paradisaea

10 July Barrow, Alaska

Three seen flying over beach ridge.

15 July Barrow, Alaska

6 seen on the north shore of Ikroavut Lake feeding in the open water surrounding the ice cake.

25 July Barrow → Wainwright, Alaska

Many of these birds were seen along the coastline. The majority were seen along the gravel bars where they were probably nesting.

3 August Pow 2, Alaska.

50-60 present on Thetis Island off the point from Pow 2. No nesting activity was noted.

11 August Pitt Point, Alaska

Three seen flying west of the base.

15 August Pitt Point, Alaska

Two were heard flying overhead this morning. They could not be seen due to a low fog.

19 August Barrow, Alaska

8 seen just N. of Footprint Lake.

20 August Barrow, Alaska.

6 flew over the lab houses in a N.W. direction.

Holmes, R.
1959

Sterna paradisaea

3

2 Sept. Barrow, Alaska

A flock of 16 flying in a loose group in - northeasterly direction over the lake.

4 Sept. Barrow, Alaska

An unknown number were present along the edge of the ocean at 2130. They could not be seen due to the low clouds + snow, but they were easily heard.

Holmes, R.
1960

Sterna arctica
paradisica

12 June Barrow, Alaska

2 seen flying over the ridge plot on the west shore of Ikroavik.

14 June - 1 seen along the west shore of Ikroavik

22 June - 1 seen flying over the plot on the west shore of Ikroavik

30 June - 1 seen flying over the plot at Ikroavik

12 July 1 - seen flying along the east shore of Ikroavik

14 July 1 seen flying along ookpik slough ^{inlet} (3rd inlet on west shore of Ikroavik).

24 July - Numerous terns were seen on Deodman's Island (east of the Pass). Only 2 or 3 nests were found with eggs, but 16 chicks were seen, & 12 of them were banded. The nests are simply a depression in the sand among the driftwood. The eggs are dark greenish with dark brown or black spots.

26 July - 3 seen hovering over the inlet near the wharve at Ikroavik.

31 July - Several seen from the boat as we proceeded east to Fitzhugh Island, but none were found nesting there.

Holmes, R.
1960

Sterna paradisica

2.

3 Aug Barrow = So. Barrow 3, Alaska

A pair seen in the large marsh,
1 mi N of So. Barrow 3.

6 Aug Barrow = Ikroavik, Alaska

1 seen at the mouth of the
inlet - with Ikroavik.

16 Aug Barrow = Cape Lisburne, Alaska

Many seen along the gravel bars
between Peard Bay & Liz A.

18 Aug Barrow, Alaska

Numerous Ad's + juveniles seen
near the shore at the village +
nose

Holmes, R.
1961

Sterna paradisica

7 June Barrow, Alaska

Plover, Alaska
1 seen flying along Wohlsehlog Slough

9 June 1 seen flying over the plot at Ikroavik.

13 June 3 " - - - -

17 June 2 seen on shore ice, west of base - $\frac{1}{4}$ mi.

22 June 1 pair seen near Loom pond, No. 1 Shrub -

There may be a nest in one of the cent
islands - in a grassy hummock.

Holmes, R.
1962

Sterna paradisica

8 June Barrow, Alaska

1 Bird seen flying along coast - just W. of
camp; 2 seen along the west shore of
Ikroavik

16 June 3 on ponds near Elson Lagoon

20 June Pair seen NW of Wainyana at Ikroavik -
1 seen to settle into a nest on a small
island, (3x2') covered with tall grass (3-6")
in a lake 60x30' in area. The birds were
quite active in bombarding us w/ a nearly
snowy squall

5 July One at Ikroavik Pt

9 July Several seen - nests at south end of
Ikroavik. - also other flying along the shore.

25 July 50-100 feeding along the shore of Elson Lagoon at
Brunt Point.

Holmes, R.T.
1964

Sterna paradisica

25 June Barrow, Alaska

Several scaup feeding birds a while to
Shrubs at NW corner & along south
end.

27 June 1 flying over No. Beach Ridge

Holmes, P.
1959

Uria lomvia

5 July Barrow, Alaska

One dead bird picked up near
Birnie. Too far gone to be saved.

20 July Barrow, Alaska

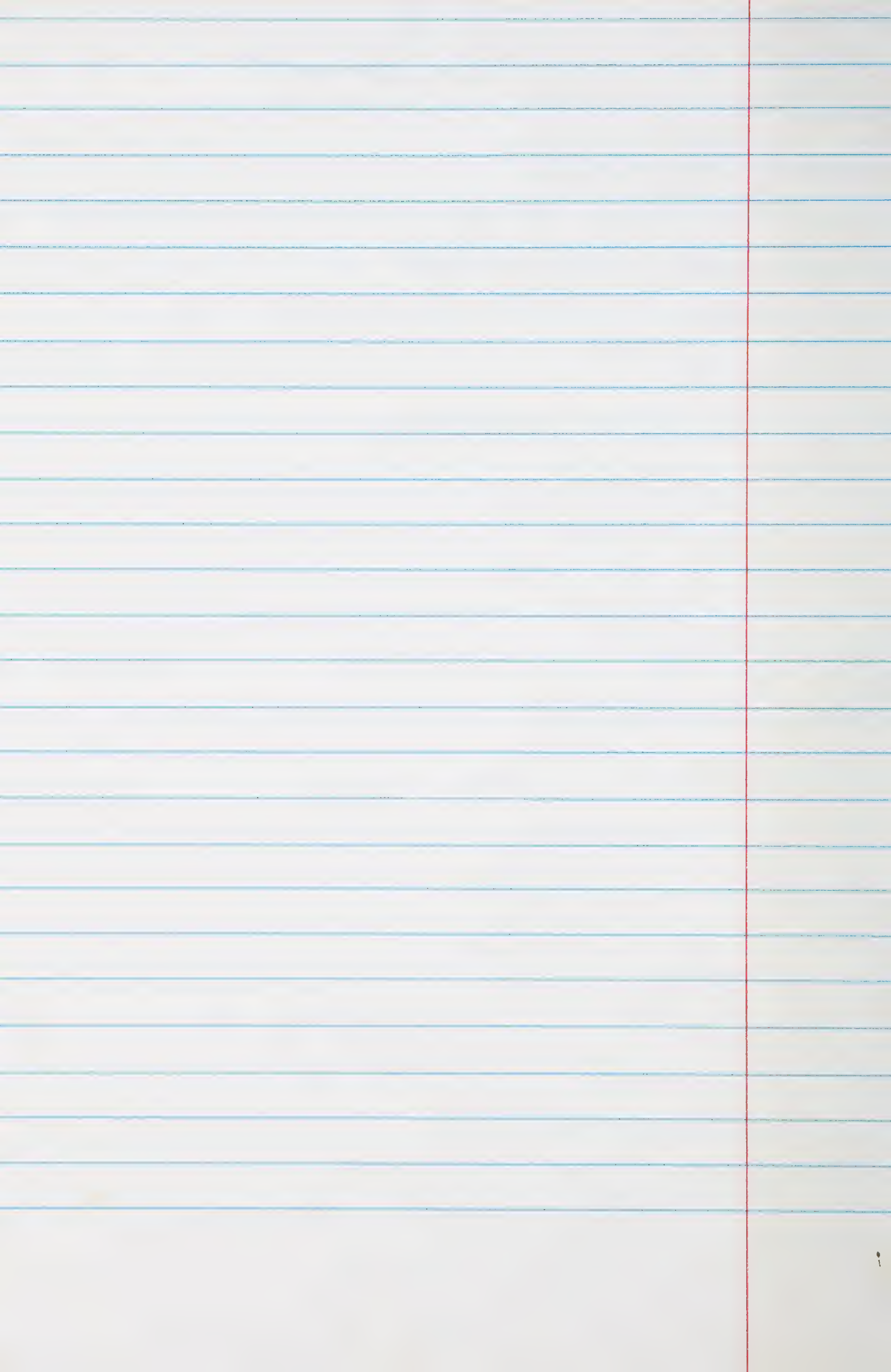
14 were found dead along the beach
between AKC and Nunuk, and
more were probably present since
we were not near the water's edge
all the way out there.

Holmes, R.
1962

Uria lomvia

25 July Barrow, Alaska

Group of 18 flying behind flock of 50
leaders - flying north-west along coast
of Elsie Lagoon near Brant Point.



Holmes, F.
1959

Cepphus grylle

7 June Barrow, Alaska

One seen on the lead near the Base. It was seen for about ten minutes and then it worked its way to the westward.

Holmes, R.
1962

Lunda cirrhat

30 July Barrow, Alaska

One Adult found dead on the beach
directly in front of ARL + camp. Bird
was in good shape - may have been killed
during the storm Friday (?). - specimen
prepared by Hines.

Holmes, R.
1959

Nyctea scandiaca

12 June Barrow, Alaska

One pair was seen so. of the village. The ♂ was extremely white and matched the snow color very well. The ♀ had some dusky color in her body feathers ~~head~~ ^{feathers} a little darker ⁱⁿ the wings. The ♀ was ~~not~~ sitting on the tundra and flew off upon our approach.

15 June Barrow, Alaska.

A ♂ was seen about 100 yards E. of the gas well road on the southern shore of the saltwater lagoon. It was sitting on a mound and flew off when the vessel approached within 30 yards. No ♀ could be seen.

17 June Barrow, Alaska

One seen w. of Voth's Area sitting on a small mound. No activity was observed.

19 June Barrow, Alaska

One ♂ seen just so. of the beach ridge sitting on the ice of central ^(Meadow Lake) marsh. After several minutes it flew toward the east along the edge of the marsh.

23 June Barrow, Alaska

Two birds seen along beach ridge about one mile east of gas line.

24 June, Barrow, Alaska

One male seen flying over the beach ridge in the region of the gas line and settled on the ice on meadow lobe. It was chased by several shorebirds on its path over the ridge.

28 June. Barrow, Alaska

One seen along the beach ridge near the gas line crossing. It flew off towards the east.

1 July. Barrow, Alaska and Wainwright, Alaska

7-8 seen near Wainwright and the associated decline station. The associated decline station. Several others noted between Barrow and Wainwright.

5 July. Barrow, Alaska

One seen on the beach ridge in the vicinity of the herd census plot.

8 July. Barrow, Alaska

Three seen in and near Voth's area. Two were females which were seen to fight (by P. H. H.). The third bird, a male, was seen sitting. This bird was also molting.

Holmes, R.
1959

Nyctea scandiaca

3

10 July Barrow, Alaska

Two seen in Voth's Area both during the morning and in the late evening. One seen on the beach ridge during the afternoon.

12 July Barrow, Alaska

Two birds were still present in Voth's Area

13 July Barrow, Alaska

One male was seen on the beach ridge near the beveridge antennae.

15 July Barrow, Alaska

Four pairs were seen between A.R.L. and Ikroavik Lake. One in Voth's Area, one at the north end of Footprint Lake, one at the S.E. end of " " Lake, and one about a mile S of Footprint along the ridge. These were all ancient pairs, but no sign of breeding was noted. It seems that during windy periods these birds will sit on the side of a mound so as to get out of the wind.

16 July Barrow, Alaska

A male was seen on the beach ridge just S.E. of A.A.C.S. Two pairs were noted on the S.E. end of the beach ridge, one of Wohlseh's Slough and one of the South side of the Slough.

Holmes, R.
1959

Nyctea scandiaca

H.

Barrow, Alaska

18 July One seen in North's Area and one was noted just no. of Footprint Lake. They were both sitting on the mounds with no apparent activity.

20 July Barrow, Alaska

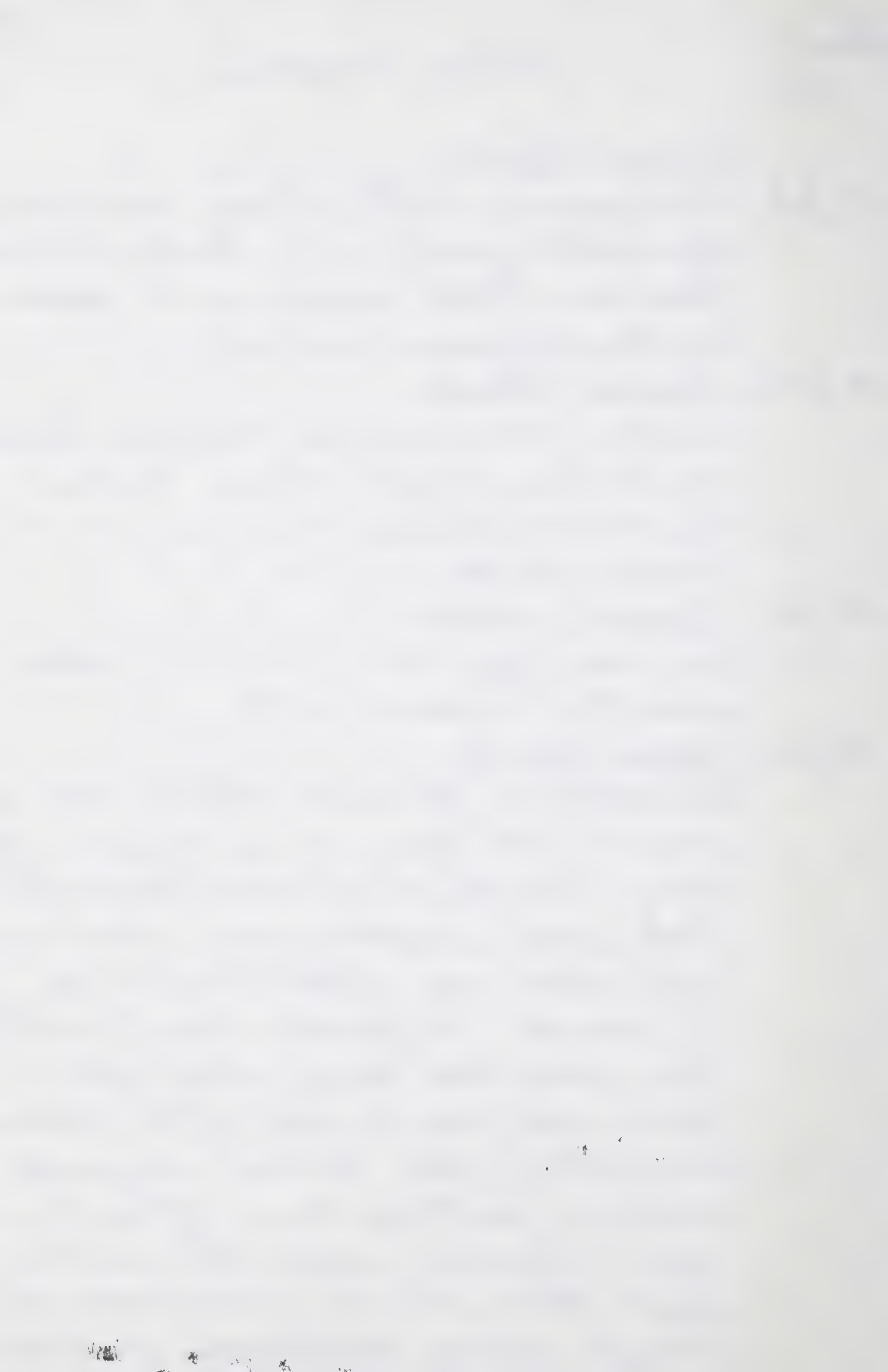
Several were noted between Ikroavuk and Elson Lagoon during the day by Lowell Douglass, Rex Pieper, and Arnold Schuch.

22 July Barrow, Alaska

One seen just No. of Ikroavuk Lake near the Brand West.

23 July Barrow, Alaska

One noted at S. end of Footprint Lake and one at North end and two in North's Area. The one at the North end of the lake was sitting on a slanting pole which rose about 10 feet off the ground. The female near the North Area was also atop a short pole which made her 15 feet off the ground. Her mate? was about 20 yards away, sitting on a cross bar of a telephone pole. This is the first time that I have seen these birds using artificial perches. No feeding activity was seen.



Holmes, R.
1959

Nyctea scandiaca

5.

24 July Barrow, Alaska

Two seen So. of Voth's Area on R.
ridge just east of Voth's Slang L.

25 July Barrow \rightleftharpoons Wainwright, Alaska

On the trip down 8 owls were seen
with Pieper, Schultz & myself
all drawing. About half of these
were within 5 miles of Wainwright.
Two were seen behind the village
during the afternoon. On the
return trip about 15 were seen
and these were widely scattered;
probably about 3 or 4 miles apart.
Only one pair was noted. There
was no noticeable concentration
present near Wainwright. According
to Brewer, the owls must have
nested near the Wainwright POW
Station because one of the men
has a young bird as a pet. The nation
and school teacher at the village
did not know of any nesting
activity.

28 July Barrow \rightleftharpoons Pitt Point, Alaska

Two owls were seen on this flight.
One just about 10 mi. SE of
Barrow and 1 about 5 mi
SW of POW at Pitt Point.

Holmes, T
1959

Nyctea scandiaca

29 July Barrow, Alaska

None seen in Voth's Area or surrounding areas.

30 July Barrow, Alaska

Also, none seen in Voth's Area.

31 July Barrow, Alaska.

None on Voth's Area, but one was seen by Preper on the beach ridge during the morning, and I saw one just W. of Wohlsehlog's Slough during the afternoon.

1 August Barrow, Alaska

One seen just N. of Ikroavik Lake. None others seen.

3 August Barrow = Beechey Point, Alaska

Between Barrow and the Colville Delta only 2 were seen and these were widely separated. However in the 16 mile interval between Point 2 and Beechey Point 14 were noticed. No jaegers were seen, but the owls were plentiful in that area.

7 August Barrow, Alaska.

One was present on the so. end of the Beach Ridge near Wohl. Slough. No others were seen on that side of the gas line. One

Holmes, R.
1959

Nyctea scandiaca

7.

7 August Barrow, Alaska

Other individual was present on the north end of footprint lake. Both of these birds were males.

11 August Pitt Point, Alaska

A pair was noted about 1/2 mi E of the base. The men at the POW station have seen them there for "a week or so" and report seeing them hunting over the tundra.

15 August Pitt Point, Alaska

One male was present near the east end of trolley line T4. He flew off over the ridge upon my approach.

18 August Pitt Point, Alaska

One noted near the landing strip at 1100.

19 August Barrow, Alaska

One present on Goshue Ridge, one on Beach Ridge and one in between these two ridges. They could all be seen at the same time and were all molting wing feathers.

21 August Barrow, Alaska

One seen sitting atop a pole near A.A.E.s. It was a male that apparently was not molting.

Holmes, R.
1991

Nyctea scandiaca

8,

26 August Barrow, Alaska

One seen on the ridge just east of Ikroavik Lake.

28 August Barrow, Alaska

One female seen half way between Uth's Area + Footprint Lake.

One male seen on the west side of the northern portion of Ft. - Print Lake and one male observed several hundred yards west of the southern half of the lake. No feeding activity was noted - all were sitting on mounds.

31 August Barrow, Alaska

Two birds (1 ♀, 1 ♂) have been seen consistently in or near Uth's Area for the past three days. They are usually seen sitting on the leeward side of the mounds. Apparently to get away from the cold N.E. wind.

2 Sept.

Barrow, Alaska

The two birds have been seen again; both yesterday + today, in Uth's Area. They have not been noted flying. Very few pellets have been found on their mounds.

Holmes, R.
1959

Nyctea scandiana

5 Sept. Barrow, Alaska

Four birds seen Between North
Area and Footprint lake. all
were sitting on mounds.

Holmes, R.
1960

Nyctea scandiacæ

1.

28 May Barrow, Alaska

One male seen flying west along the beach ridge (just S. of AACs).

29 May, Barrow, Alaska

One was seen near Voth's Area, Footprint Lake or Ikroavik today. 1 pair was noted near the line ridge where a nest was located. It was situated on a low piece of exposed tundra (-this may be relatively high after melt off) several hundred feet below the ridge top. There was no nesting material, only a depression in the tundra where the 7 "dirty" brown eggs were laid. The ♀ showed no signs of aggressiveness, as she flew away before I ever came close to the nest. The ♂ was not seen close to the nest, but was across the meadow lake on a low ridge. Later he was seen to fly back toward the nesting site.

31 May Barrow, Alaska

A pair seen + their nest found near the mouth of Ikroavik Slough. The nest is located approximately 500 yards north of the slough on a very slight mound. At this time, the

Holmes, R.
1960

Nyctea scandiacaea

2.

31 May Barrow, Alaska

area surrounding the nest is nearly all covered with snow. Only a small area of tundra is exposed & this is where the eggs have been laid. The nest contained 4 eggs, which are whitish (slightly tinged with dusky or brown).

A male was seen at the very southern end of the bread ridge & even after an hour's wait & searching, no ♀ could be detected. Another male was seen in the morning evening near the north end of the census plot on the ridge & again no female could be located. There could have been the same bird.

1 June Barrow, Alaska

at 0.9 of a mile south of the north end of Ikroavik, a depression was found which had apparently been the beginning of an owl's nest. Around its rim, were 27 dead lemmings (23 Ad. ♂, 2 Juv. ♂, + 2 Ad. ♀) - all were marked by the removal of the right hind foot. A ♂ owl was present in the vicinity, but no ♀ could be seen. I wonder if the ♀ was infertile or if

Holmes, R.
1960

Nyctea scandiac

3

1 June Barrow, Alaska

she was killed or ?? . Eight fenths (.8) / a mile further south a pair was seen. When first noticed, they were separated; The male on a mound, the ♀ 300 yds away. The ♀ then assumed the copulatory position (tail up in the air, body in a horizontal position, giving a hunched over appearance). The ♂ flew directly over, copulated, + then flew off. The ♀ went directly to the nest, about 50 yards away + began setting. The nest is located on a small mound, 20 yards above an inlet or trough. The nest was completely surrounded by snow and was located in a deep (5-6") hole. There were 4 eggs.

During the evening one ♂ was seen at the north bank of Wobbl. Slough near Elson Lagoon. This bird is probably the one from the beach ridge. Also one ♀ was seen N of the mouth of Sukpik (400 yds N.) along the shore of the lagoon. The pair at nest #5 could be seen in the distance, while I was watching this lone ♀.

2 June - Nest #4 by Footprint Lake was checked at 0830. It contained eggs and

Holmes, R.
1960

Nyctea scandiaca

4.

2 June Barrow, Alaska

was located on a polygon top near the edge of the lake. Nest #7 was then checked and was found to contain 10 eggs. It is located on the edge of village slough (near its south end). Only the ♀ was seen. The mound of lemmings (#10) was checked and no additional lemmings had been added. The ♂ was still present and was performing the dracula display when I first arrived. This took place about 30 yards from the mound on a low polygon top. During the remainder of the time spent in the area, he did not display again. Nest #1 was located & it contained 9 eggs. The pair was present here.

During the evening, we checked #7 & #8. The pair at seven were present & could be seen clearly; since the nest was checked this morning, it was not looked at again. #8 was found and all eggs had been broken. No human footprints or any other footprints were noted. Both birds were present however; and the ♂ was seen doing the dracula display much of the time with

Holmes, R.
1960

5

Nyctea scandiaca

2 June Barrow, Alaska

his back toward the ♀. During this period the ♀ was standing not more than 2 feet from the ♂, but he had his wings spread "like a angel" with his back toward her. His tail was kept down at a normal angle & was not cocked.

3 June Barrow, Alaska

One ♂ seen on the south shore of Wohl Slough; this is probably the bear ridge ♂.

5 June Barrow, Alaska → Inarn River, Alaska

Numerous owls & nests^(?) were found between Barrow & the Inarn River. The nests contained between 3 & 7 eggs, and at least 2 pairs were seen copulating. See Maher's notes for more details on nests, etc. (one nest was found near the Inarn - an area which also showed goose lemming sign.

6 June Barrow, Alaska

Nest #4 contained 7 eggs when checked this afternoon. Nest #1 had 9 eggs. The nest mound (#10) had only 17 dead lemmings, all of which were marked. The ♂ was present and persisted in doing the dracula

Holmes, R.
1960

Nyctea scandiaca

6.

6 June Barrow, Alaska

display for considerable lengths of time. Reviewing an spread back, arched forward, with the digit at the bend of the wing sticking out laterally. The head in forward, and the bill usually has a lemniscate in it. The tail is spread normally and is not cocked. When first noted, he was in a mound in this position, ^{slowly} turning around in 360°. This went on for several complete revolutions. Another pair was seen northwest of the goosed, and this nest was located by Maher that afternoon. It contained 8 eggs.

7 June - One ♂ owl was seen along Elson north wobleschlog. This is probably the beach ridge ♂. The pair at the mounted Sokysich was checked, and their nest (#5) contained 7 eggs (+ 1 outside). Both birds were present, and the male performed a distraction display by spreading his wings out and flapping them shallowly. This was performed when he was behind a mound, so that I could just see the top of his head & the

Holmes, R.
1960

Nyctea scandiaca

7.

7 June Barrow, Alaska

wings flapping. This same display was seen by a ♂ owl near the Inarn. It also stayed behind a mound and just "peeked" over.

8 June Barrow, Alaska

Nest #1 was checked + it contained 7 eggs (2 had been taken by an Arctic Skua). The nest ^(#9) west of Ikroavik contained 8 eggs + both birds were in close attendance. The ♂ ^(#10) with the mound was seen to do the double display, north of the slough (drawing into the lake).

9 June - 1 ♂ seen south of Wohl-slough. Another(?)

♂ was seen during the afternoon near the NE end of the tundra along Elson Lagoon. As I was watching him, he flew a short distance away from the mound where he had been sitting and picked up a lemming with his beak. He then transferred it to his feet as he took off and flew SW towards the beach ridge. He landed on the ridge near the exclosures + began to eat the lemming. This is evidently the ♂ which has been seen along the ridge.

Holmes, R.
1960

Nyctea scandiaca

8.

10 June Barrow, Alaska

1 ♂ seen along the Elson Lagoon, just south of Wohlsehlog Slough. This is presumably the hood ridge ♂. When disturbed it flew out over tundra & sat about 400 yards from shore. Later it flew to the ^{area} north of the slough.

12 June - Nest #4 checked. It still contains 7 eggs, one of which was beginning to pip. There was 1 ♂ Lemmus lying next to the nest. Nest #8 was checked, and there are now 6 eggs. No lemmings were present. Nest #7 has 10 eggs. No lemmings were here either. ♂ #9 was seen doing the dracula display about half way between the 2 sloughs on the west shore of Ikroavik. On a mound 70 yards away was a ♀. Several minutes later, both flew off in a northerly direction.

13 June - Male #10 was alone when seen today, and no other birds were seen in that area. He was not displaying.

16 June - Nest #1 was checked, & it contained 1 young. No other eggs were hatching.

Holmes, R.
1960

Nyctea scandiaca

9.

21 June Iktroavik (Barrow), Alaska

Pair # ~~8~~¹⁰ seen south of the second inlet with Iktroavik this evening.

22 June - Pair # ~~8~~¹⁰ seen again in the same area. In the evening, the nest was located on a rather prominent mound. It contained 5 eggs. No humming were present around the nest. Copulations or divorce displays were not seen.

23 June - Nest # ~~10~~ still contained 5 eggs, & both birds were present. An attempt was made to get to nest # ~~8~~. But it was discovered that this nest is located beyond a deep slough (described as an inlet or trough on 1 June - due to snow cover). I was directly across from the nest but could not see into it. Both birds were present, so apparently the nest is still active.

27 June - Barrow, Alaska

Nest #2 was visited. It contained 7 young + 2 eggs. There were several old humming around the nest + 4 fresh ones (3 ♂♂, 1 ♀).

Holmes, R.
1960

Nyctea scandiaca

10.

27 June Barrow, Alaska

After I arrived + checked the nest, I sat in the blind for 1½ hours. During this time, the ♀ was very cautious + came to the nest about 6 times. Each time she was frightened away either by movements in the blind or jaegers nearby. When she was away from the nest, she would sit on the flat lands below the nest where she was continually bothered by jaegers. Her reaction to this dove bombing was to jump with air + apparently try to get her talons up in the direction of the intruders. In the process of doing this, she would jump about 2-4 feet in the air, bring her feet up, where at the same time, the body would tip (like someone attempting to do a somersault - but not quite making the flip). The ♂ during this time sat calmly along the ridge about 100 yards away. When I first approached the nest, he attempted to do a distraction display by flapping his wings wildly and making a low grunting call.

Holmes, R.
1960

11.

Nyctea scandiaca

29 June Barrow - Ikroavik, Alaska

In the morning, owl nests 3 + 2 were visited for the purpose of weighing the young. Nest #3 contained 7 young in various stages of development (see Pitelka's Notes for weights). Both the ♂ + ♀ were present; neither bird made any attempt to defend the nest. Both remained within 100-150 yards, and during the time we were there, they were harassed constantly by jaegers. The defensive position against these jaegers was as described earlier (the owls attempting to raise their talons for protection & in doing so - jumped into the air). When the owls were flying, the jaegers would often dive-bomb them, and several times it appeared that actual physical contact was made between the jaeger & the owls (especially the ♀). This nest (#3) was fenced, so that the young owls would not wander away. Nest #2 contained 7 young and 2 eggs, one of which was pipping. These birds were a little more aggressive. The ♂ made several attempts at dive-bombing us whenever we were at the nest. The ♀ even made one feeble

Holmes, R.
1960

Nyctea scandiaca

12.

29 June Barrow-Ikroavik, Alaska

attempt by flying over low. The ♂ performed a distraction display several times. Usually it consisted of him standing along the edge of the old lake bed or up among the polygons + flapping his wings rather erratically with the wings occasionally being held in the horizontal plane with the tips dropped, and the tail cocked. Once while he was at the edge of the marsh he assumed this position with wings spread out and tail cocked and head forward. In this position he moved slowly over the ground and as he did so he teetered back and forth. The usual calls given during these periods of disturbance are usually various grunts, occasional deep hoots, and while in the air, bill clacking is quite common. It might also be mentioned that this bill clacking is also done by the ^{older} young in the nests when they are disturbed. On the way to the wanaga in the

Holmes, R.
1960

Nyctea scandiaca

13.

29 June Ikroavik Barrow, Alaska

evening, we stopped at owl nest #4 at the side of Footprint Lake. The nest contained 2 young which were only partially grown (both were banded - so they were probably between 500 - 700 gms in weight). There were no other signs of the remainder of the clutch. No egg shells were present nor signs of dead young. The area was searched for 30 yards in all directions, and no young were found. The nest was located on a mound where there were 2 old fox traps. Many feathers were scattered about; and several old? eggshells which appeared to be jaeger eggs were present 2 feet from the nest. Both adult birds were present. 1 ♂ lemming was at the edge of the nest. There were no signs of human visitation to the nest, so what ever happened (?) to the young may have been from natural causes. Of course it is possible that they were still present in the area & just couldn't be found. Owl nest #10 was checked, & it still contained

Holmes, R.
1960

14.

Nyctea scandiaca

29 June Barrow - Ikroavik, Alaska

5 eggs. There was 1 ♀ lemming at the nest. Also on the way south, a lone ♂ was seen at the NW corner of Salt Lagoon in the gravel area just after the junction of the gas well road & the village road. (A bird was seen here in the evening on 26 June also). When he flushed as we went by, he moved further south along the lagoon & then flew out over the lagoon ice. At that time a 2nd ♂ was seen further down the shore, sitting on a drum. He also flushed as we came near & flew towards Voth's Area. These are probably non-nesting birds.

30 June Ikroavik, Alaska

Owl nest #9 was checked in the late evening. There are two young (which were weighed - 97g + 52g). There are still 6 remaining eggs. Both adults were in attendance.

2 July - Nest #10 still has 5 eggs. Nest #9 still has 2 young, which were weighed this evening. Nest #1 was checked for the first time & a couple

Holmes, R.
1960

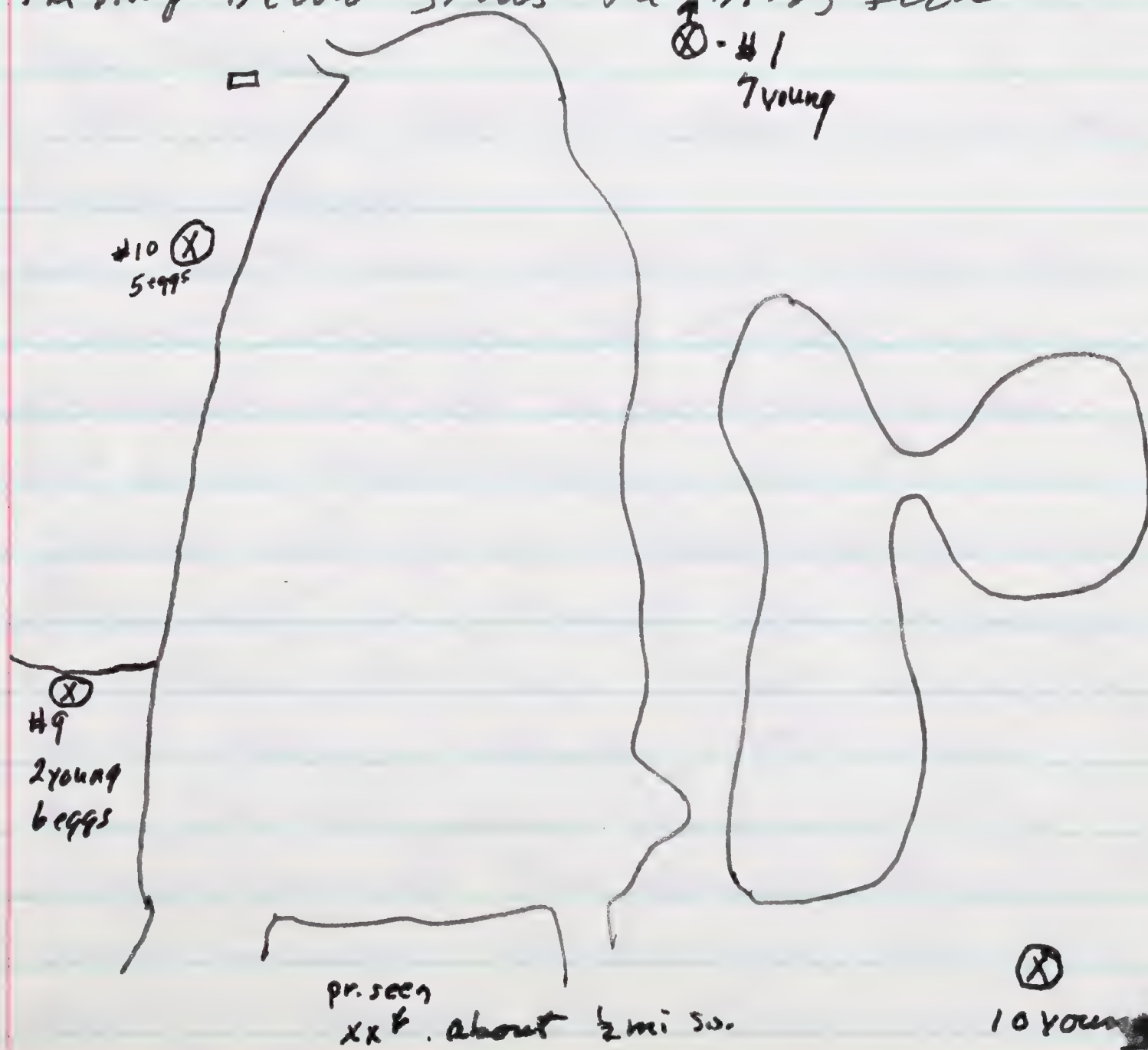
Nyctea scandiaca

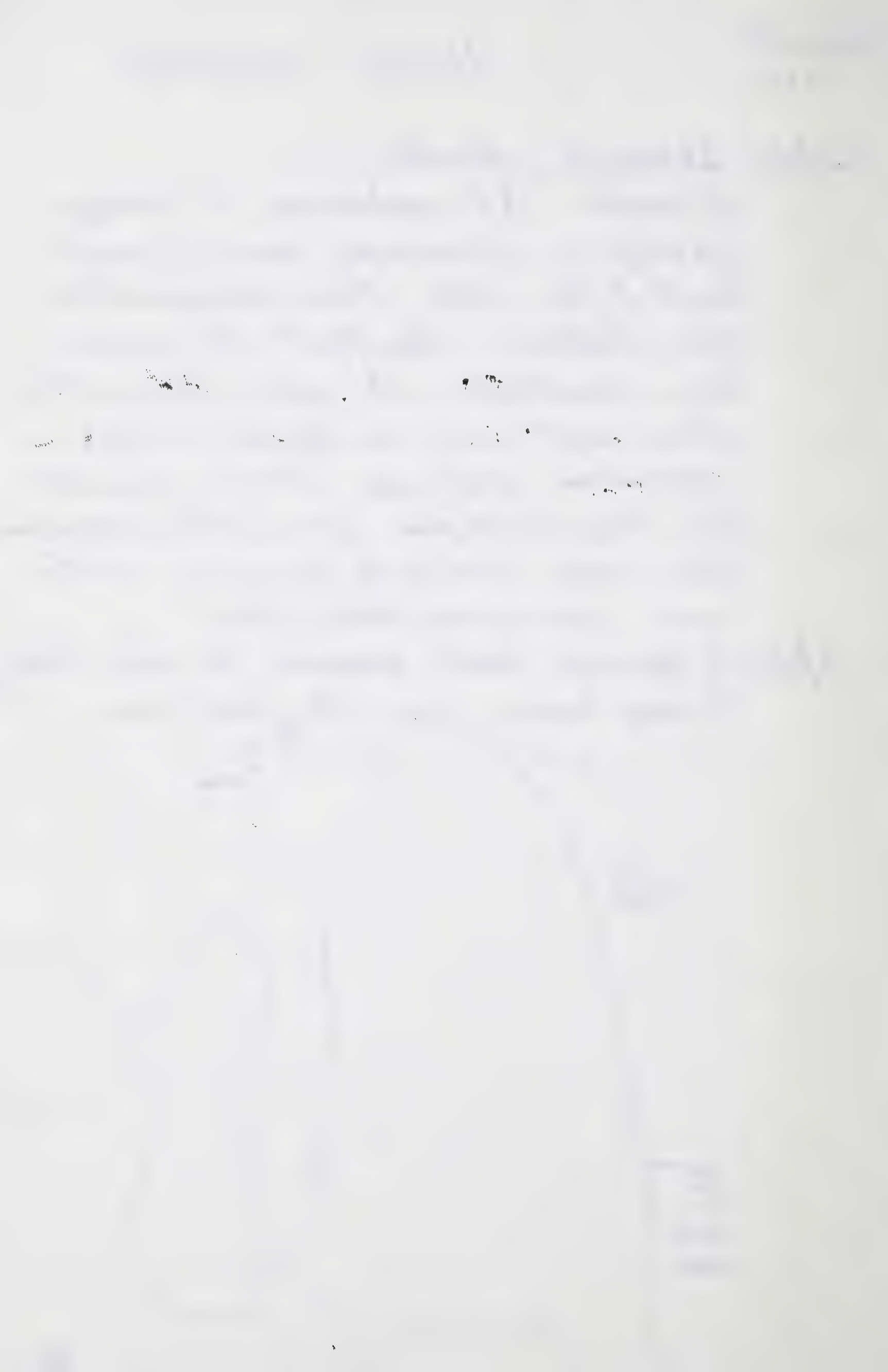
15.

2 July Ikroavik, Alaska

11 weeks. It contained 5 large young + 2 small ones (1 just out of the egg). This completes the clutch. Now that the snow has melted, it was found that this nest is on top of a high isolated polygon (8x8' - separated by deep troughs from the other polygons). There were 4♂ + 3♀ lemmings at the nest. All were fairly fresh.

3 July - A trip was made around the lake today. The map below shows the birds seen.





Holmes, R.
1960

Nyctea scandiaca

16.

3 July Iktroavik, Alaska

The nest south of Loom Lake contained 10 young, 2 of which were quite young. 4 of the young were banded. There were 16 lemmings at the nest (10 ♂♂, 6 ♀♀). Nest #1 was visited again, & 4 of the young were banded.

4 July - Nest #9 was checked & the 2 young were weighed. Nest #10 still contains 5 eggs.

8 July - Owl nest #9 still has only 2 young. They were weighed this evening. #10 still has 5 eggs.

10 July - Both nests were the same as before.

13 July Barrow, Alaska

Owl nest #2 was visited for picture taking & pellet collecting. The ♂ did quite a distraction display by spreading his wings out horizontally & moving over the ground slowly in a flicking motion. Occasionally he would raise his wings & put them back in a vertical position - similar to the dracula display. At the same time the head went forward & the resemblance to the dracula display was amazing. Movies were taken by Maher & myself, and there show the

البيان

في بيان ما هو المطلوب من هذا العلم
والذي هو العلم بالحقائق
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير
والتي هي الحقائق التي لا تتغير

Holmes, R.
1960

Nyctea scandiacea

17.

13 July Barrow, Alaska

Postures quite well (I hope!!). Saw nest #12 was checked + a blerial was set up near the nest. Nest #2 was then checked to clarify the positions of nests in this area. It was located + the young were quite well grown. 5 young were banded. (See Maker's note for more details on #1 young, etc.). See below/

14 July Ikroavik, Alaska

One egg in owl nest #10 was just starting to pip this morning. The 2 young were weighed at nest #9; the other eggs (5 - 1 had disappeared) are apparently infertile. The pr. o/owls near Britton's Area have disappeared. The nest (#1) South Footprint was visited, and it was found that the young were fairly well dispersed. There were 2 in the nest + only 3 other could be located. Bands were placed on those present (some partial had lost bands -)

13 July Barrow, Alaska

at owl nest #6, a brant's nest with 5 young was found just 35 feet from the owl mound

Holmes, R.
1960

18.

Nyctea scandiaca

13 July Barrow, Alaska

When 1st discovered, the lost young
had just died off, and while
we were there the velvet brant
led the group off. See Brant note.

14 July Iktroavik, Alaska

Two chicks were still in nest
#9. They were weighed this morning
before I returned to Barrow.
In nest #10, 1 egg was starting
to pip.

17 July Barrow - Iktroavik, Alaska

Nest #7 was again checked & the chicks
were weighed & banded. Owl nest
#10 contained 2 young, 1 p, ppy egg,
and 2 eggs. The young were weighed.
During the evening, I sat in the
blind at nest #12. During the
2 1/2 hours that I was there, the ♂
came in once & brought a
lemming. The ♀ then began to
feed it eggs & gave small
chunks of the chicks. Most of the
time, the ♂ seemed to just sit
& feed the young. The ♀ would
attempt to cover the young with
her wings in order to give them
protection.

Holmes, R.
1960

Nyctea scandiacia

19.

17 July Barrow - Ikroavik, Alaska

Owl nest #9 mentioned previously
had 2 ♂ lemmings at the edge. #10
had 1 ♂ lemming. Nest #5 was
checked at the mouth of Ootpiik
slough. I banded 5 young, and
there was 1 more that was too
young. (Total of 6 young present).
The adults were not aggressive.
Both the ♂ & ♀ did a distraction
display. The ♀'s consisted of
spreading her wings, herintact
& weaving back & forth slightly.
Occasionally she would make a
hissing note.

19 July Barrow, Alaska

The pair was present near the barrel
pile on the west shore of Salt
Lagoon. The mounds that they have
been using for perching are covered
with feathers. Another lone ♂
was seen just west of Voth's marsh.
The 2 nests along Village Slough
were checked today. These (#7
and 8) were empty with no
sign of the young or adults
present. Evidently they have been
found by the eskimoes who then

Holmes, R.
1960

Nyctea scandiaca

20

19 July Barrow, Alaska

proceeded to destroy the nests.

21 July Iktroavik, Alaska

Nest #9 was empty, but the young (2) were about 30 yards away to the south. They were swept again. The eggs taken from this nest on the 17th were definitely infertile (infertile rotten). Nest #10 contained 4 young + 1 egg which was just beginning to pip.

23 July Barrow = Meade River, Alaska

Several birds seen north of the Inarn, but none below it. The natives at ~~Wanavik~~ Meade River say that there were very few around that area this year + that none nested. (They also said there were no St-cared Gulls - but we did find a nest).

26 July Barrow, Alaska

Nest #1 was checked + several of the young were found + banded applied to those which had not been banded previously. The nest south of Loon was checked, + the young had moved several hundred yards away, but all 10 were

Holmes, R.
1960

Nyctea scandiacica

21.

26 July Barrow = Ikroavik

There, and bands were applied. Both Ads were present, but they did not become too excited or riled.

(The same at nest #1). At nest #9, both Ads were present + 1 chick was seen, but we did not stop to check on the other one. The young at nest #10 were weighed, and the youngest one was brought back into the lab by Reynolds. The nest did not have any lemmings around it. During the past week, there have been 3 owls present in the fence just west of salt (furnish) lagoon.

At the owl nest so. of Loon Lake, the wings of a ♀ Stellar Eider were found - indicating that she had been preyed upon + fed to the young.

A week ago, Maher found the wings of a ♂ King Eider at an owl nest near the base. Now that the young are nearly grown (some are beginning to fly), the food requirement is extremely high.

Holmes, R.
1960

Nyctea scandiac

22.

27 July Barrow, Alaska

Owl nests #1 + 3 were visited, & both were deserted. The young at #2 were still present nearly & four were crested. Two at this nest were found dead in the enclosure. This may have been due to their not being able to join the rest of the chicks away from the nest & were therefore ignored by the adults. Nests #11 + 12 were also visited, and the chicks banded. At both of these nests, the chicks had left the nest mound & were found wandering over the tundra.

29 July - Two of the young of nest #3 were seen flying just south of the beach ridge near the postline.

2 August - Two flying chicks seen on the line plot on the Beach Ridge near the gas line. These were from Nest #3. In the afternoon, 1 molting bird was seen on the west shore of salt lagoon.

3 August Barrow = So. Barrow 3, Alaska

During a trip to So. Barrow 3, as many owl nests as possible were located, and the chicks present were banded. The following notes were taken during

Holmes, R.
1960

Nyctea scandiaca

23

3 August Barrow = So. Barrow 3, Alaska

The course of the journey. The nests were numbered as they were encountered. Only brief description of location will be given here - the map in Makey's

Notes give the more precise locale.

Nest #13. - located just SE of Dry Lake & just NE of Loon Lake. Three young were present in the nest - 2 were banded. No others were seen.

There were present at the nest the wings of a old Squaw (sex?) and also the head of a ♂ Steller's Eider - both apparent prey items of the owls.

Nest #14. - found about a mile ESE of Loon Lake. The nest cup was not seen - but there were 5 young, two of which were flying. Three were banded.

Nest #15. - located about 2 miles No. of So. Barrow 3 (along the w. edge of the large marsh). 5 young were found & banded, and in addition to them, there were the remains of 1 chick in the nest (eaten by others?). One adult jaeger carcass was also found near the nest.

Holmes, R.
1960

Nyctea scandiaca

24

3 August Barrow = So. Barrow 3, Alaska

Nest #16. found NW of So. Barrow 3.

5 young were seen; 2 were banded.

One dead + ^{mostly eaten} joeger chick was found nearby

Nest #17. located ENE of So. Barrow 3

(just N. of the small creek). Five chicks were seen; 3 flying - 2 banded.

Nest #18. - located NE of 17 - along side on the lake (see map). - 6 young were seen + all were banded. None were flying yet.

Nest #19. Located ^{1 mi} SE of Antler Lake. Five young seen; 4 banded; 1 flying

Nest #20. - located on the SE shore of Antler Lake - 5 young found; 5 banded

Nest #21. located NNW of Antler Lake near a small pond. 6 young seen; 5 banded; 1 flying.

Both adults were present at all of the above nests. None of the ♂♂ attempted to dive-bomb us, and no distraction display was noted. As mentioned above, most of the young were found away from the nest site - consequently, few of the nest mounts

Holmes, R.
1960

Nyctea scandiaca

25.

3 August Barrow = Sr. Barrow 3, Alaska

were visited. In certain ones however, the parts of a ♂ Steller's Eider, Old Squon, an Adult Pomarine Jaeger, & 1 jaeger chick were found. Evidently, predation on birds is occurring even during a lemming high year.

6 August Barrow = Ikroavik, Alaska

Nest #10 at Ikroavik was checked today. The four young were still present; the two older had moved about 25 feet from the nest. These chicks were weighed. Both adults were present.

8 August Barrow, Alaska

Three young seen on the beach ridge near the gas line. I presume they were all from Nest #3.

11 Aug - One flying juvenile seen near Britton's Area. There appeared to be an aluminum band on his left leg - but no color band was seen. (It may have been there however - since I was not able to get very close).

Holmes, R.
1960

Nyctea scandiaca

26.

15 Aug Iktroavik, Alaska

The juveniles at nest #10 have moved about 350 yards south of the nest - along the ridge. Both adults are still in attendance. One chick (the youngest) was found dead near the nest. The weights are recorded on the int - record sheet.

16 Aug Barrow = Cape Lisburne, Alaska

An occasional scattered owl was seen between here & Wainwright but they were by far nowhere common. None were seen west of Wainwright.

20 Aug Barrow, Alaska

Two juveniles (flying, but still with down) seen along the west shore of Family logom. Bands could not be seen.

21 Aug The young were weighed at nest #10. Only 2 of the 3 could be found (the oldest & the youngest). The adults were still in attendance.

27 Aug Barrow = Pitt Point, Alaska

Owls seen frequently between Barrow & Admiralty Bay. This included several family groups. Beyond the Bay, only 1 - 2 were seen.

Holmes, R.
1960

Nyctea scandiaca

27/

28 Aug Barrow, Alaska

A dead juvenile (with band No 509-29660 [+A blue color band - both on the right? leg) was found near Trapline XIII (10' away). This is apparently 1 of the juv's from nest #2. About 30 feet from this bird, we found the remains of a juvenile jaeger. There were several pieces of wings; bones, 1 foot, etc.. Near the chick, there was a large pellet (Adult?) which contained a jaeger foot. It seems probable that the family group from nest #2 had moved through this area, & had killed a jaeger chick (probably not quite flying) and had eaten it there. An adult jaeger may have killed one of the owl chicks.

30 Aug A repeat of the above incident was discovered about 200 yards NE of the trapline in the fertilize plots. The owl was also banded, & there were the remains of a dead jaeger chick.

Holmes, R.
1960

Nyctea scandiaca

28.

2 Sept Barrow, Alaska

1 bird, apparently a juvenile, seen along the beach ridge near the beverage antennae.

3 Sept 1 Juvenile and 1 molting Adult ♀ (quite "dirty" in coloration) were present along Voth Creek. No bands could be seen. At Ikroavik, the family of owls (pr #10) were still present about 250 yards south of the nest site. The adults were still there, and the three chicks were flying.

Holmes, R.
1960

Nyctea scandiaca

Nest #10

Ikravik, Alaska

	<u>R - rt.</u>	<u>R - mid</u>	<u>L - left</u>	<u>L - mid</u>
7-17 (1600)	62g	44g		
7-21 (1200)	156g	121g	40g	73g
7-26 (1600)	409g	318g 872	73g	220g
8-6 (1200)	1053g	872 g	364g	778g
8-15 (1300)	1526g	1491g	dead wt. - 434g	1136g
8-21 (1400)	1665g	not found	—	1228g
9-3	flying	flying		flying

Holmes, R.
1960

Nyctea scandiaca
Nest #9

Iktroavik, Alaska

	<u>R-Rt</u>	<u>R-mid. ~ H</u>
6-30 (2200)	97g.	56g.
7-2 (2000)	136g	87g
7-4 (1200)	199g	123g
7-8 (2400)	402g	319g
7-10 (2000)	549g	434g
7-14 (1100)	733g	667g
7-17 (1600)	940g	906g
7-21 (1200)	1115	1065g

Holmes, R.
1961

Nyctea scandiaca

4 June Barrow, Alaska

1 ♀ seen sitting on small mound, south of Voth's area. No activity noted. No pellets were found on mound. Pete Savolike reports several owls south of the village (where the children are also catching lemmings - 100 in about 4 days).

7 June - 1 ♂ seen on the hills, just so. of the village.

9 June 1 ♀ seen flying west across the south end of the beach ridge & then across central marsh.

10 June 1 ♀ seen near the beverage antennae, N. of Voth's slough.

10 June 1 ♂ seen flying west along the beach ridge near the gasoline

11 June 1 ♂ seen flying south along the B. Ridge - along Pitelka's plots.

17 June - 1 ♂ seen along the B.R. - near gasoline.

11 July 1 ♂ seen on the ridge behind (N.) the insect plot.

13 July above bird seen sitting again in the same general area.

21 July 1 ♂ seen at the south-west end of Voth's Slough. - Most likely, same individual as above.

23 July 1 ♀ seen just so. of Voth's slough.

7 Aug 1 seen so. of Wapik Slough.

14 Aug 1 seen near the fertility plots.

Holmes, R.
1962

Nyctea scandiaca

28 May Barrow, Alaska

Cade observed a pair in the drum area behind APL + a pair on the west side of Footprint Lake on 26 May.

This evening, a pair was noted west of Footprint + just south + west of Voth's Slough. The ♂ was seen flying - suddenly landed near the ♀ who was sitting on the snow at the edge of a 2x2' exposed polygon top. The ♂ then mounted the ♀ + remained there for about 30 sec. - then flew off to the so. The ♀ remained sitting until I flushed her. There was no sign of a nest on any of the exposed mounds in the vicinity.

30 May 1 ♂ seen s. of the village along the creek which drains into village slough. No ♀ could be found in the area.

another bird - believed to be a ♂, was seen sitting in the telephone pole - between Oak + Britton's area.

2 June 1 seen in drum area

3 June 1 ♂ in Elsa-oohpuk Slough; 1 ♂ at the N.W. end of Footprint Lake

4 June 1 ♂ - on Voth's Area - several reported from drum area by Muller

Holmes, R.
1962

Nyctea scandiacea

5 June Barrow, Alaska

1 ♂ seen flying near Voth area.

6 June 1 ♂ along Ullagss Slough south of the village. ; 1 ♀ on immatures to mi S. of Voth area - 1 No. / Footprint Lake.

7 June 1 ♂ along white mounds sector of B. Ridge ; 1 ♀ on P. Telke's Plot - 1 ♀ at the mouth of Oolupik Slough (may have been same bird as on P. Telke's Plot ?).

8 June 9 snows over sectors on snow drifts along Voth Road - 1/2 way to Voth area. Flew to top of telephone pole nearby.

10 June 1 ♀ on Voth Ave. ; 1 ♂ near barrel ridge in the evening. A pair noted at the curve of the barrel ridge. Another single bird seen near the gas-line crossing of the ridge - which had 1 or 2 primaries missing from both wings.

14 June 4 - 20 ♂ ; 2 ♀♀ on barrel ridge near gas line ; 1 near Oolupik Slough - 3 near South end of Dry Lake ; 1 No. end of Ikroovel ; 1 on west side of Footprint Lake. No evidence of nesting yet.

15 June Eight seen looking S. & West from white-mound sector of B. R.

20 June Eight ovals counted from the waning jar - mostly along the north-west shore of Ikroovel Lake.

21 June 3 ovals on high pole on - along W. side of Footprint Lake.

Holmes, R.
1962

Nyctea scandiaca

23 June Barrow, Alaska

3-4 on Bear ridge near gasoline + 2
near N. end of Pitelka's plot.

24 June 4 sitting around N. + W. end of Ikroavik;
5 more along the W. + S. end of Footprint
lake. 8 were seen between the N. end of
Footprint + Uok Area.

29 June 6 seen from insect plots (Uok → Footprint → Village
Slough localities) - 2 on bear ridge. Number
seemed to have decreased from a week ago.

1 July 16 individuals seen between Uok Area +
the North end of Ikroavik. all scattered
out; none in nests.

5 July 4 seen along N. shore of Ikroavik - 3
on shore of Footprint - numbers are down.

7 July 2 N. of Uok Area

8 July 2 owls near Footprint lake (west shore) +
1 north of the wamp at Ikroavik

9 July 2 on census plot - 2 at south end of
lake (Ikroavik) + 18 seen between the
ootepik slough + central marsh. - Nearly all
were seen on or behind mounds.

12 July 2 on Ikroavik census plot - 2 on N. shore of
Ikroavik. Three along south end of
Footprint - None seen farther north.

14 July 1 Owl seen between BR-Elson Lagoon - Wohl-
bley Slough - Central Marsh + Bear
Ridge Area - It was near Elson + Wohl.

Holmes, R.
1962

Nyctea scandiaca

16 July Barrow, Alaska

One - the census plot at Ikroavak. 1 at
the south end of Footprint + 1 on
Vok -

18 July 1 ♀ on B.R. - 1 ♂ on North shore of Woblesch
near end of B.R. - 1 at mouth of
Woblesch + 1 near Curlew Sog
area (1/2 way between Brant Point
+ Woblesch).

25 July None seen along Beach Ridge or near
Elson Lagoon.

30 July 2 on east side of Devel Ridge - near south
end.

1 Aug 6 seen between Vok Area + So. Footprint lake -
2 more near census plot. This is quite
an increase over the last two weeks -
when very few have been seen.

6 Aug One on Devel Ridge near junction + on
a Gardiner Ridge.

12 Aug One west of Vok Area + one just no. of
Footprint lake.

13 Aug One - Gardiner Ridge.

15 Aug 1 near Vok - 1 on west shore of Footprint -
1 on south shore of Footprint - 1 on
North shore of Ikroavak - 1 on Gardiner R.,
1 on beach ridge near junction + 1
a few / pop at SACS.

Holmes, R.
1962

Nyctea scandiaca

5,

17 Aug Barrow, Alaska

One ♂ near Insect plots + 1 ♀ or immature
in Britton's Area.

18 Aug 2 on Beach Ridge - gasoline crossing

21 Aug 1 on Beach Ridge - near gasline - 1 on east end of
gasline ridge - 1 SW of Insect Plot + 1 SE of
Insect Plot - 1 NE of Insect Plot - 1 just
south of Woblesley across from the end of the
Beach Ridge + 1 at ASOS. They seem to
be scattered out - but are more numerous
than they were during late July + early
August.

23 Aug 8 seen between Voth Area + Ikroavut - all
spread out. - no young - 1 yr-olds were
noted.

25 Aug 2 ows between Wohl. + Ootjipik Sloops +
2 near the gasline + SW of Gasline Ridge.

Holmes, R.
1963

Nyctea scandiaca

27 May Barrow, Alaska

One adult ♂ seen sitting on a mound at the south end of the beach ridge near Wohlshley Slough. It moved off to the south on our approach.

28 May - One seen flying south along Voth Creek (east of Cape-entr). - ♂

In evening - a ♂ was seen flying east of B.R. + N.E. of Wohlshley Slough. The flight was performed with a full stroke to the vertical + then back to 20-30° to the surface. These strokes were performed deliberately + ^{this} was obviously a display flight. The wing beat cadence was 2/sec - each upward stroke going to within 10° of vertical + the downstroke ending just below the horizontal. After about 1/2 min, the bird landed on a 60 x 30' patch of open tundra + began the "dracula" display with head stretched forward, wings raised + held in the manner of angel's wings. - see 1960 notes. The distance was too far + there were too many heat waves to see if he was holding a lemming in his beak. No other bird was seen. After about 3 min, the bird flew off, giving the display flight - latched across (so.) Wohlshley Slough + again did the dracula display - This time there was definitely no lemming in its beak - yet he continued to rotate on the mound with wings back + head forward - sometimes again - landed - resumed gd. display

Holmes, R.
1963

Nyctea scandiaca

2.

29 May Barrow, Alaska

One ♀ or 'imm': ♂ (dark gray ^{brown} splotches
scapulars, crests + breast - not spotted
like most ♀♀) - on the shore of EISA lagoon -
half way between Wohl + Brant Pt.

In evening - no ♂ seen at southern
of beach ridge - but the ♀ was seen in
the same one described above. A few
minutes later, A male flew south along
the bluff along EISA - passed near
the sitting ♀ + kept going toward the
beach ridge.

30 May A ♀ near Umanua, a ♂ 1/4 mi west of
Umanua (just w. of Oak Slough) + a ♀
near gasoline on the beach ridge.

31 May One ♀ along EISA lagoon, South of Brant Point -
where she was seen 2 days ago. 1 ♂
200 yds south of cockpit slough.

2 June On trip to Denali Gate - south village
slough - Ikroavik census plot, south
end of Ikroavik - Dry Lake - Oohgik
slough census plot + central marsh
during afternoon - NO owls were seen.
All areas were scanned carefully.
On our return on the beach ridge,
one ♂ was sitting near the
beverage antennae on the south side
of the ridge.

Holmes, R.
1963

Nyctea scandiaca

3

2 June Barrow, Alaska

Also, Arch, Crane, worker at gas well,
has not seen owls at all this
spring

4 June A ♂ at south end of beach ridge
near Wobleschley

6 June 1 ♂ on mound ~~at~~ north end
of footprint lake. None seen between
Voth Area & Village Slough - nor on
gasline or beach ridges.

South end of beach ridge & large
mounds across Wobleschley Slough
- 1 ♂ down drainage ditches for 10
mounds - with drumming, in brief -
turning in half circle around. A ♀
was about 10 yards away on
mound. Aft 10 min - he flew to
her mound, landed 3' away - immob.
Went into drainage ditches. but
she kept looking straight ahead -
no att'n directed to ♂. Aft about 2
minutes, he flew back to his perch &
again went into drainage ditches -

7 June 2 ♂ on south ridge of Wobleschley -
halfway between end of b.r. &
Hsien Lagoon. A pair seen by J. Brown &
crew near Dr. Hen's Area. Only 1 ♂
seen there in the evening.

Holmes, R.
1963.

Nyctea scandiaca

4.

8 June Barrow, Alaska

One ♂ on west side of Village Slough - NW
at Britta - on both sides - on Knoli Ridge.
Two (♀ + ♂) on mound at north end /
Ikroavik - for was so then I couldn't
follow them for any distance - then
will be work checking again.

Elsin Lagoon - No. wph. - 1 ♂ sitting on
whole vertebra, just so. / Brant Pt. - 1 ♀
on mound, 200 yds north of center of
site.

PAIR on beach ridge - ♂ at southern
near Woblesby; ♀ on Pitelch plot
near weasel mound

9 June Pr - west of forest lake + drum area. Pr
impolysar near Line 9 + 10 - (AACS) + ♀ on
beach ridge near live plot - ♂ on
beach ridge near magnetic station.

♂ at mound / Ootpit; ♂ + ♀ on gusline ridge.

10 June ♀ in Voth Area; ♂ on west shore of Voth Creek -
near south end of Family Lagoon. In evening, a
pair along ^{Elsin No. wph.} - a pair then wph.
near Su end / B.R. + a pair -
Pitelch plot.

11 June ♀ near AACS, ♂ - B.R. - near Bev. antennae +
a ♂ - west of Gusline ridge.

♂ - west of Village Slough; ♀ NW of
Voth Area - along Voth Creek

Holmes, R.
1963

Nyctea scandiaca

5.

12 June Barron, Alaska

1 ♂ on high polygon south / float plane lake; 1 ♀
near Elson Removal Plot.

2 birds (♂ + ♀) near Tegelmann F + 10; also
2 others (♂ + ♀) on beach ridge - near
Beverly antennae

- 3 seen before Barron + Skull Cliff.

15 June - 2 ♂♂ in Ikroavik census plot, 3
scattered along north + east shore of
Ikroavik.

17 June - 3 on census plot at Ikroavik - all appear
to be ♂♂. Two - 1 ♂ - 1 ♀ on high
polygon north of Ikroavik, 1 ♀ on
beach ridge. female low plot area -
1 ♂ on Beverly antennae + beach
ridge. 1 ♂ + 1 ♀ on southern /
beach ridge + south side of Wohlshlag
flu. - 2 ♂♂ along E / 1 + Logom. No
breeding activity

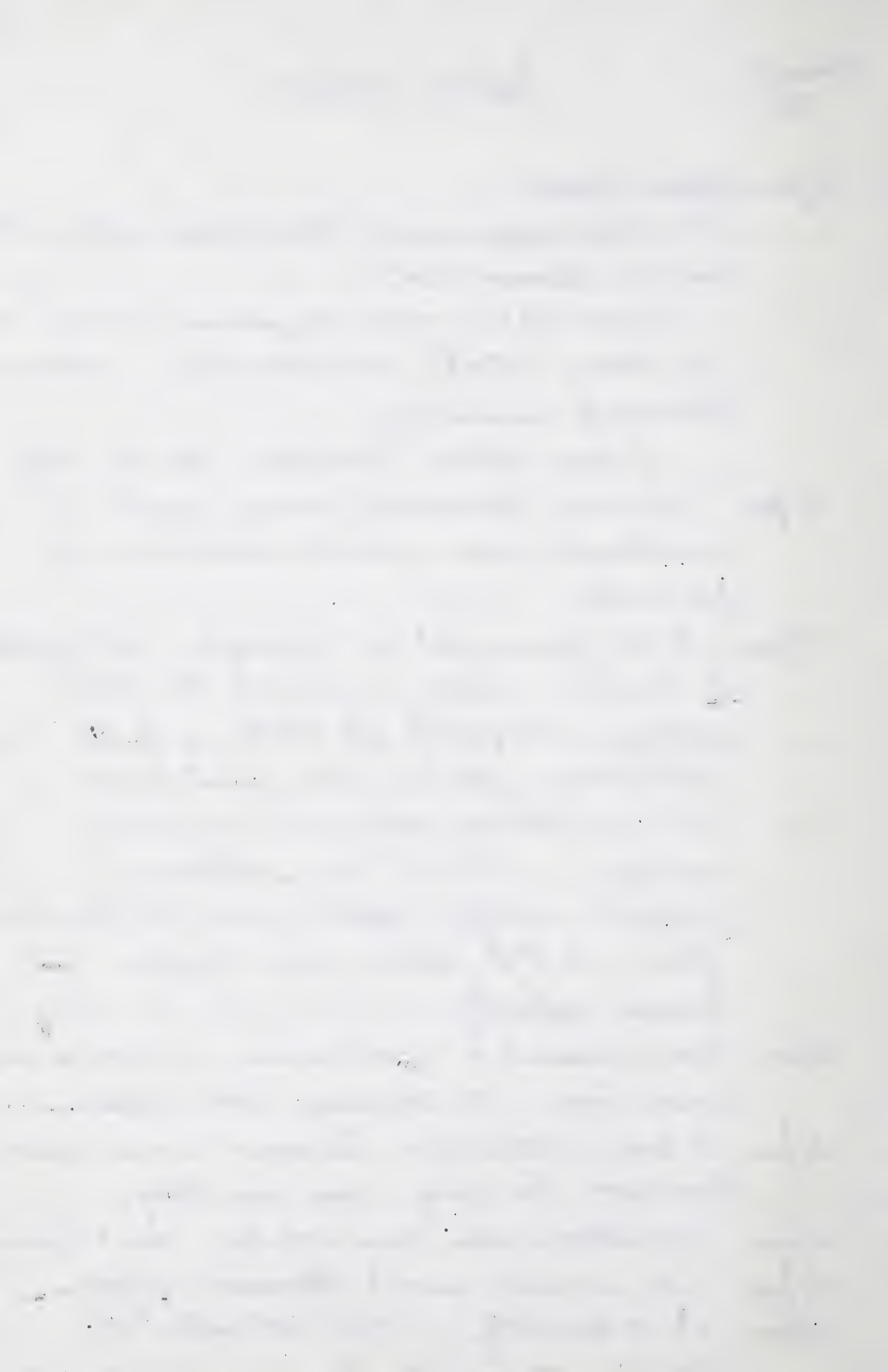
20 June None in census - out area. - None on North
beach Ridge. N. meadow lake - AACS.

21 June - 3 birds (2 ♂♂, 1 ♀) - Ikroavik census plot -
These were the only ones seen today.

23 June - 1 ♀ sitting + poles near Vok - also 2 ♀♀

25 June 1 ♂ on north end of Ikroavik plot.

26 June 1 ♀ on Elson bluff, 1 ♂ on north shore of
Wohlshlag - south end of beach
ridge. 1 seen near Vok - in Tegelmann poles



RTH
1963

Nyctea scandiaca

29 June Barrow, Alaska

None - census plot - but one along north shore of Ikroavil + one just north of Voth area - on power pole. The number of owls has decreased markedly, - the last week.

3 July 1 at north end of Ikroavil + one on east of Ikroavil - 1 along Voth area.

4 July 1 in Nup polyze - SW of Trepeline ~~at~~ B.

7 July 1 owl seen near Ikroavil census plot - only one all day

9 July 1 owl seen NE of Ikroavil census plot - no other

12 July 1 adult ♂ in Voth area.

13 July 1 " " still - " + 1 near the Ikroavil roannija - no other seen.

14 July 1 owl - south end of beach ridge near Wohlisch

16 July 1 ♂ near insect plots. none on beach ridge nor gasoline ridge

17 July 1 owl on census plot. no others seen.

19 July 1 ♂ on gasoline ridge, 1 in Voth area, 1 near insect plots.

20 July 1 ♂ on Ikroavil census plot - 1 on ridge west of south end of Footprint lobe.

21 July 1 ♂ on south end of beach ridge.

23 July 1 ♂ at north end of Footprint + 1 on Ikroavil plot.

RTW
1963

Nyctea scandiaca

24 July Barrow, Alaska

One ♂ on south end of beach ridge
near Wohlschlag & one near
insect area - near north.

25 July 2 near north end / Ikroavut plot - both
apparently ♂♂. One dirty individual
on large black mound at south
end of central marsh.

26 July Two owls along the bluffs of Oohpit
slough.

28 July One ♂ with south footprint (obs), 2
near north end / census plot.

5 Aug 2 near mouth of Oohpit slough.

6 Aug 1 N. / Ikroavut lake - 2 on census plot.

12 Aug Traveled to Oohpit & Wohlschlag Slough -
Saw 1 owl near ~~both~~ Oohpit -
no others. None have been seen
in the last few days.

15 Aug 2 Ad east of fertilizing plots.

18 Aug 1 ♂ south of gasline ridge

20 Aug 1 Ad ♂ on south side of Oohpit slough.

25 Aug 1 ♂ south of gasline ridge.

Holmes, R.T.
1964

Nyctea scandiaca

4 June Barrow, Alaska

1♂ sitting on Polygons near Trogulus IX + X.
1 on Pitelka's plot. 1 at south end of beach ridge.
Call appeared + the ♂♂.

5 June 1 ♀ on Voth's area; 1 ♂ west of the insect plots.

None seen in afternoon in the south beach ridge area.

8 June None seen in the last 3 days.

9 June 1♂ at south end of Beach ridge.

13 June 1♂ on Voth's bluff in late evening

15 June At least 3 on mound 50 + east of gasline ridge.

18 June 2 seen south + east of gasline ridge - 1 on beach ridge near gasline.

19 June 1 on beach ridge near 4 drums. - 1♂ west of insect area.

20 June 1 on beach ridge (Pitelka's plot) - + 1 on line plot (near gasline)

25 June Two along census plot; 2-3 others between 25.0 + south end of Ikroavik; 3-4 along E + NE sides of Ikroavik - One was always in sight. 1 North 1 Footprint.

30 June 1 ♀ or juv - N. end of Pitelka's plot - 1♂ south of Wohlseh's.

Holmes, R.
1959

Asio flammeus

5 June. Barrow, Alaska

Two seen near the barrel area. One was sitting on the ground and the other was flying when first noticed. Later both flew off in a westerly direction.

12 June Barrow, Alaska

One seen flying to the east over the dump area. It was flying a direct course about 75 feet above the ground. One also seen near Britton's Area at 1315. A pair was noted flying past N. of Voth's Area at 1615. They were flying high, but were making large circles and not moving in any one direction.

13 June Barrow, Alaska

One seen flying west over the beach ridge. Another seen flying over the dump area.

14 June Barrow, Alaska

One seen sitting on tundra along the gas well road near Britton's area. It flushed as the observer came within 50 yards.

15 June Barrow, Alaska

A pair was seen about 400 yards So.

Holmes, R.
1959

2.

Asio flammeus

15 June Barrow, Alaska

of the drum area. One bird of the pair was seen to chase off a Pomarine Jaeger when the jaeger approached too close.

It chased it for several hundred yards before returning to its original resting site.

17 June Barrow, Alaska

One seen in the drum area and then it was quickly chased out by a pair of jaegers (Pomarine).

18 June Barrow, Alaska

A pair was seen in the drum area where the jaegers had been yesterday.

19 June Barrow, Alaska

One seen flying over the beach ridge during the morning.

23 June Barrow, Alaska

One bird seen just west of the drum area. It was flushed from the ground.

25 June Barrow, Alaska

One seen near AACS buildings and one flew over the rest-census area during the afternoon.

30 June Barrow, Alaska

One seen just so. of the drum area near AACS

Holmes, R.
1959

Asio flammeus

6 July Barrow, Alaska

One seen at the south end of the drum area among the drums.

10 July Barrow, Alaska

One seen in south end of drum area.

15 July Barrow, Alaska

Two seen near the S.E. end of Footprint Lake.

18 July Barrow, Alaska

One seen again near the S.E. end of Footprint Lake.

It was being chased by 2 Pomarine jaegers which quickly gave up the chase.

25 July Wainwright, Alaska

One seen near the cliffs just NE of the village.

Holmes, R.
1960

Asio flammeus

1 June Barrow, Alaska

Two seen along the shore of Elenor Lagoon.

5 June - Barrow → Inarn River → Barrow, Alaska

Several seen just south of the village & occasionally along the route back.

In one place near the river, the aerial display was observed. This is where the bird flies to a height of 50-60 feet & then places his wings ventrally & flaps them together 3 or 4 times. By this time, the bird has lost elevation, so that he has to flap normally to regain altitude. The display may then be repeated.

9 June Barrow, Alaska

One seen on the N. portion of the beach ridge near the beverage antennae. He was seen to catch a lemming, and it then took him 12 minutes to devour it.

20 June - 1 seen near the gas line along the beach ridge. It was flying high & was being harassed by a pair of jaegers.

27 June - 1 seen at the south end of the drum area, being harassed by jaegers.

Holmes, R.
1966

Asio flammeus

2.

8 July Barrow, Alaska

Maker & I visited the nest found by Warner yesterday(?). It is located west of the pipeline - opposite A.A.C.S. The nest is located on the top of a low, high-centered polygon and also a crack on the top of this structure.

There are 4 eggs, which are smaller than chicken eggs & are more glossy. There was no definite nest material.

18 July - The above nest has been checked by Maker & Warner during the last few days. Today, however, it had two eggs which had small ^{jagged} holes ($\frac{1}{4}$ " diameter). The third egg was cold; the 4th ^{or 5th} was not around to be seen.

23 July Meade River, Alaska

A nest was found near the coal mine. It was located about 50 yards away from the bluff overlooking the river. The nest was among the foot grass & consisted of some matted down grass & numerous feathers. There were 6 young, one of which wasn't over 2-3 days old. Only one adult was present near the

Holmes, R.
1960

Asio flammeus

2.

23 July Moose River, Alaska
nest, but another was
seen about a mile inland
(whether this bird belonged to
the nest or not - I do not know).
The eskimos at the village
said they had seen no "brown"
gulls this year.

28 July Barrow, Alaska

One seen near ATCS in the evening

25 Aug One seen east of the Beach Ridge
It was flying, rather erratically

Holmes, R.
1962

Asio flammeus

17 June Barrow, Alaska

One hunting south of central marsh. One
reported by Herin - near Voth Area.

Holmes, R.
1964

Asio flammeus

4 June Canyon, Alaska

At least 1 (possibly 2) seen flying around
low + high - near AACS. Later, 1 seen near
AACS, one on Pitelka's Pt + 1 near Dokipik Slu +
Elsen Lagoon.

5 June 1 on open tundra near Village Slough - sitting
[Harry Brown reports them common - actually
abundant at Meade River - although lemmings
there were not very common].

7 June 1 on Voth bluff - Hunt east, another a moose
1/2 mi. west of rot area. One hunting also
north head ridge in the evening.

8 June 1 hunting along road head side - probably
same individuals as last night. One hunting
along P. Telles Plot; 1 new A. acs.

19 June One in out mound near ^{1st} ditch on Pikelike's Pt

12 June One flying along beach edge, east of the gasline.

13 June - near beverage antenna

17 June (Sun morn) 100% Nod

Pitelka's Pt. at

17 June - One flying over head ridge - east of gasoline.

19 June 2 a blood ridge near sensory antennae.

20 June 1 one No. BR - beaver, antennae area.

28 June. None seen recently - probably have departed.

Holmes, R.
1962

Petrochelidon pyrrhonota

30 May BARROW, ALASKA

One individual seen several times
1/4 mi east of Volk's area - flying back
& forth over an exposed "grassy" field.
The bird would have been collected but
I was distracted by a displaying
E. ruficollis.

Cade ~~also~~ thought he also saw this
species near camp (outside airolog) today.
(species?)

Holmes, R
1960

Hirundo rustica

7 July Barrow, Alaska

One seen flying along the west
shore of Freshwater Lake. The bird
was collected.

Holmes, R.
1962

Oenanthe oenanthe

28 May Barrow, Alaska

2 ♂♂ (I believe) seen NE of Voth's area on the high ground west of Family Lagoon. Neither would allow close approach. One finally flew off to the East; the second was collected.

30 May - 1 seen by Cade in the drum area.

1 June - Mueller collected one in the drum area & I saw one in Britton's area during the afternoon.

Holmes, R.
1959

Sialia currucoides

4 June Barrow, Alaska.

One ♀ seen at The Base^{at 2030.} It was seeking shelter behind the quonset huts and would not fly until the observer approached within 5 feet. At 2200, it was still present but could not be found at 2230.

Holmes, R.
1963

Hylæcichla minima

5 June Barrow, Alaska

1 collected near Drant Point feeding
on small patches of snow-free tundra.

Holmes, R.
1959

Motacilla flava

4 June Umiat, Alaska

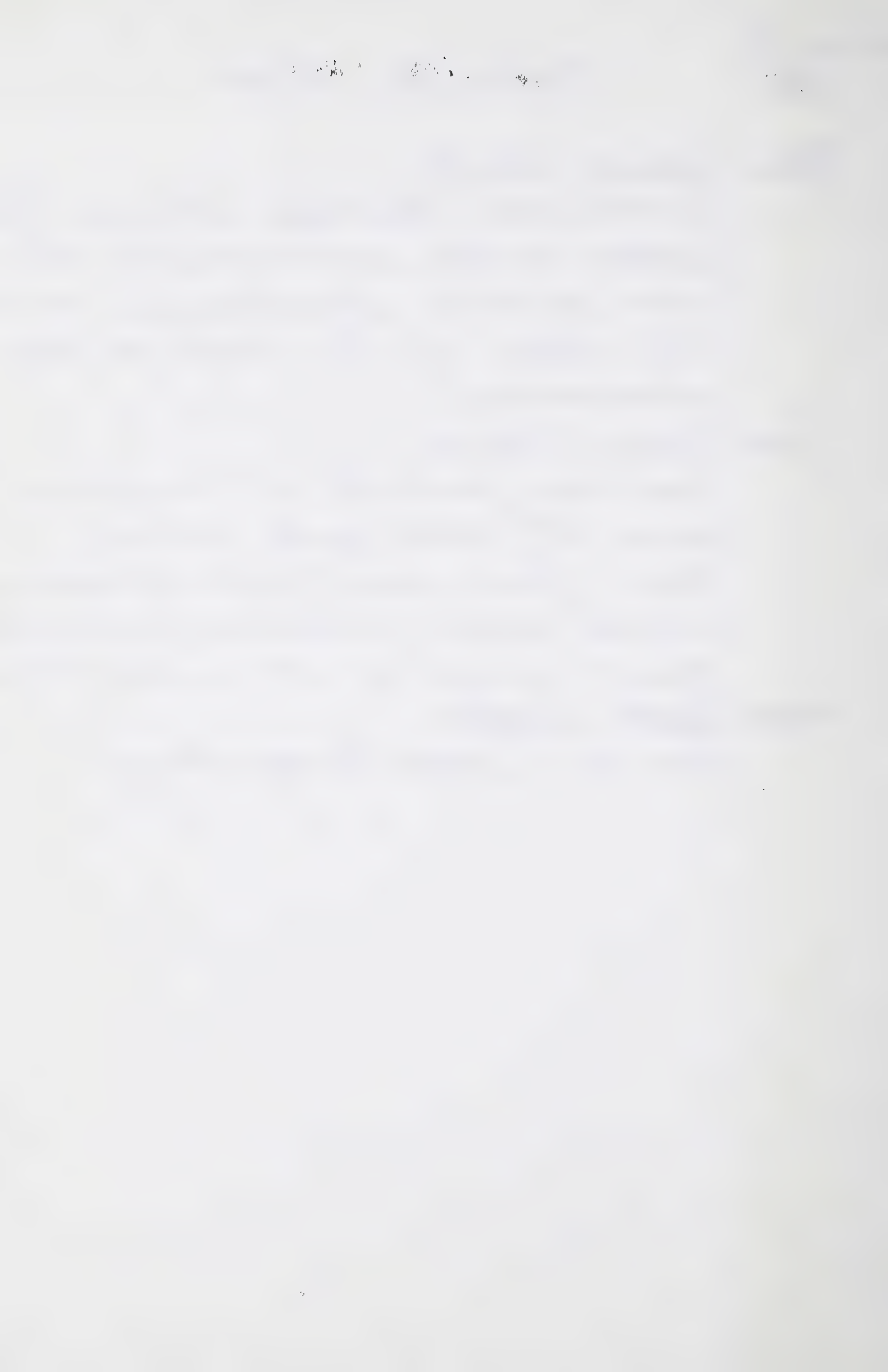
2 seen near landing strip. The yellow on the underparts is not always conspicuous, but the flip of the tail is very diagnostic.

11 June Barrow, Alaska

One seen just ~~E~~^E of the drum area. It was quite active and flew several times to various exposed areas of tundra during the several minutes it was observed.

10 August Umiat, Alaska

One seen near the airstrip.



Holmes, R.
1962

Notacilla flava

10 June Barrow, Alaska

One collected in Voth's Area - 1 mi or /
the coast! Another individual was seen
on the tundra - near the corner of Elson +
Wobbeslag.

Holmes, R.
1961

Anthus spinoletta

6 June Barrow, Alaska

1 pipit seen along the old-tom of
tundra (weasel tracks) - between Voth's
& Britton's area. A collection attempt
failed. The bird was feeding in
the turned up soil & along the pond
margins.

Holmes, R.
1962

Anthus spinoletta

7 June Barrow, Alaska

1 individual collected half way
between Volk's & Britton's houses.
It was giving a high thin call note -
sit-sit-sit.....

Holmes, R.
1959

Spizella arborea

8 June Barrow, Alaska.

One individual singing just
So. of Barrow Village.

10 August Umiat, Alaska.

4 seen near the airstrip.

Holmes, R.
1963

Spirilla arborea

1 June Burns, Huron

1 seen on pinyon near Elm (Lutes
say dozens etc) - singing from pinyon top
zee-zee-zee-zee-zit-zee - - - - - \

Holmes, R.
1959

Passerculus sandwichensis

5 June Barrow, Alaska

One seen onundra near Base
at 1330.

Holmes, R.
1960

Passerculus

sandwichensis

10 June Barrow, Alaska

One heard by Maher near the lab
and one seen by me along Elsa
Lagoon, south of Wobbschlog Slough
during the evening.

Holmes, R.
1962

Passerela sandwichensis

9 June Barrow, Alaska

3 individuals (or at least 3 sightings) were
seen between Britton's Area + Barne ridge -
1 was collected ; one had been heard singing.

Holmes, R.
1959

Calcarius lapponicus

5 June Barrow, Alaska

1030. - 20-35 were present in the Narvik Area. None were singing.
1900. Several seen in the drum area behind the base. At this time the males were performing their flight song or several were seen ^{doing this} during the hour spent in observation. They would fly to a height of 50-75 feet and then glide to earth on outstretched wings and at the same time uttering a trinkling song.

6 June Barrow, Alaska

0800-0900. Several seen in Drum Area going through their flight song. Others were noted feeding and showing no interest in breeding activities.

1100-1200. Several in the Voth Area and adjacent tundra.

7 June Barrow, Alaska

1100-1200. - many present in the drum area. No songs were heard. Also many present in the same area at 1800.

8 June Barrow Alaska

Holmes, R.
1959

2.

Calcarius lapponicus

8 June. Barrow, Alaska

Many seen in the area so. of Barrow village which has is ~~been~~ cleared of snow. Also several were noted on the return trip (inland). These birds were singles or pairs in habitat in small exposed areas.

9 June Barrow, Alaska

There are still 20 to 30 birds in the drum-lined area, but now they are beginning their territorial defense. The ♂♂ are seen in combat both on the ground and in the air. The territorial boundaries do not seem to be established yet, but within a general area, the "resident" male becomes excited when intruded upon. The defending male stays on the ground (at first), stretches out its neck, and stands ready for the intruder which flies up to the male and is prevented from landing by the actions of the defender. After this intruder has hovered for several seconds while being attacked from below, it attempts to fly several feet away

Holmes, R.
1959

Calcarius lapponicus

3

9 June Barrow, Alaska

and land. When this happened, the defender took flight and chased the other bird over the tundra for about 2 min. This flight-chase was noted in several areas. It consisted of the 2 birds often flying straight up in the air for ~15 feet while "belly to belly" and then tumbling together back to within a foot or 2 of the ground. It appeared that actual contact was made between the two by both the bill + feet. The whole array of events was accompanied by a chatter from both birds.

1400-1630. - 15-30 seen in ^{+ near} the North Area. Two birds, 1♂, 1♀ were seen in an aggressive outburst as they roared back & forth over the tundra, then several feet into the air, tumbled to the ground and then the ♂ performed the mating display accompanied by a high shrill whistle (F.A.P.). Copulation then took place. Some of the birds appeared to be paired.

Holmes, R.
1959

Calcarius lapponicus

4.

9 June Barrow, Alaska

and others not. The condition of the gonads of 7 birds collected showed no difference when compared to those of several days ago (all ^{now} around 2 mm in diameter).

10 June Barrow, Alaska

The ♀♀ seemed more abundant than previously, and the males were seen frequently going through their aerial song-"display". The fight-chase between 2 males was only seen once.

11 June Barrow, Alaska.

The birds seem to be paired now with very few individuals seen. They are often seen in their chases over the snow where the ♂ may be chasing the ♀ or 2 ♂♂ will be chasing each other. During the "chase", there may be actual contact between the two birds. One ♀ which was collected had an egg which was just about ready to descend, so \therefore laying would have been within a day or two.

13 June Barrow, Alaska

One ♀ collected which had laid one egg and had a second ^{one} in the oviduct. The birds appear to be very secretive and are very

Holmes, R.
1959

Calcarius Laponicus

5

13 June Barrow, Alaska

hard to spot once they land on a patch of tundra.

14 June Barrow, Alaska

Several males were seen going through their aerial displays, despite the S.W. wind. One nest was found in a crevice formed by the cracking of the mud. The nest was made of dried grasses woven together into a small cup-shaped nest - about 2" across. There were a few feathers in the bottom of it and 1 egg. The egg was brown with blackish mottlings.

15 June Barrow, Alaska

1400. The nest described above was checked and found to contain 2 eggs. Many of the pairs seem to be nesting now. The males are still going through their flight displays, and the females are remaining rather secretive. 2200. The nest was checked again and contained two eggs still.

17 June Barrow, Alaska

The above-mentioned nest in the down area now contains 4 eggs (at 1110).

Holmes, R.
1959

Calcarinus lapponicus

6.

18 June Barrow, Alaska

The nest in the drum area contained 5 eggs at 1000. Very little activity was noted however, several males were giving through their aerial displays.

19 June Barrow, Alaska.

Several pairs seen along the beach ridge and between there and the A.M. The aerial displays are still being carried on. According to the specimens collected by J.A.P. Some females are almost through with egg-laying while others have laid only one or two eggs.

20 June Barrow, Alaska

One nest containing 5 eggs was found on the beach ridge. The female was collected and contained one egg in the oviduct.

21 June Barrow, Alaska

The first nest found in the drum area still contains 5 eggs and the female is setting. Another nest was found further so. in the Drum Area and contained 4 eggs. Aerial displays and occas. chasing are still seen throughout the tundra.

22 June Barrow, Alaska

The nests described above all have

Holmes, R.
1959

Calcarius lapponicus

7.

23 June Barrow, Alaska

The same number of eggs. Some of the male longspurs are now seen in small flocks, so apparently these are non-breeding birds & the territoriality has begun to break up. The aerial displays are seen infrequently.

28 June Barrow, Alaska

The nests checked today all contained the same no. as the last reported date. Two new ones were found near trap line II on gasline ridge. One contained 5 eggs; 1 had four eggs. Some males are still displaying, others seem to be found in groups of 2 or 3 with very little chasing.

30 June Barrow, Alaska

The first nest discovered in the tundra in the drum area now has 3 young birds and 2 eggs (at 1600).

3 July Barrow, Alaska

The first nest in the drum area now contained 5 young^{at 0900}. The second nest had 4 young. The males seem to be flocking together more than before. A group of 6-8 are now being seen.



Holmes, R.
1959

Calcarius lapponicus

8.

3 July Barrow, Alaska

Two nests were also located along the beach ridge east of the beverage antennae. One contained four newly hatched young, and the other had five.

6 July Barrow, Alaska

Many birds were seen today in the vicinity of A.A.C.S.. Both males and females were present, but the males were more numerous. Birds of both sexes were molting. No flight songs were heard.

7 July Barrow, Alaska

One flight song was heard just north of the trap line IV on the beach ridge. The bird was not seen, but the song was clearly heard. Pitelko reports that he has seen one or two birds giving their flight song in the same vicinity yesterday and today. The males seem to have lost their territoriality for bands of 4-6 are often seen together. When there are encounters, however, they will utter a sharp alarm note and appear to scold the intruder or if there

Holmes, R.
1959

Calcarius lapponicus

9.

7 July Barrow, Alaska

was a nest nearby and he was trying to warm his mate. Pairs are occasionally seen feeding together.

13 July Barrow, Alaska

During the last week, longspurs have been fairly common, particularly males. No young birds have been seen on the tundra which seems unusual since the nests have been hatching during this time. Females are seen occasionally, sometimes in small groups. Very few mixed (♂-♀) groups were noted.

15 July Barrow, Alaska.

One immature seen near the South-end / Footprint Lake. Since the cover is poor this year (due to an extremely wet year in '58 - thereby having very little growth), possibly predation may be the cause for the number of immatures seen.

20 July Barrow, Alaska.

During the last four days, several trips have been made to Footprint Lake, A.A.C.S., and the Beach Ridge. Over these trips, no young longspurs were seen. In fact, longspurs as a whole were scarce. On 16 July, 2 longspurs were caught in the traps, but they have

Holmes, R.
1959

Calcarius lapponicus

10.

20 July Barrow, Alaska

been none in the traps since that date. Hardly any are seen on the tundra.

23 July Barrow, Alaska

There still seems to be ^{very} few of these birds on the tundra. A bird is seen here or there but then only occasionally. No young birds have been seen the last few days.

25 July Wainwright, Alaska

Several young birds were noted near the village; however they were not very common.

28 July Pitt Point, Alaska

Several present and scattered out on the tundra. No young birds were noted.

3 July Barrow, Alaska

Very few of these birds are now seen; scattered individuals are occasionally encountered. The birds have nearly completed their post nuptial molt and have a brown wash over the head, which makes the males look very similar to the females.

2 August Barrow, Alaska

Several seen in both areas. Mostly males.

Holmes, R.
1959

Calcaricus lapponicus

11.

4 August Barrow, Alaska

Several seen on Voth's Ave and flat country to the south. Two were caught in the traps, and there were nearing completion of the molt.

7 August Barrow, Alaska

Flocks of 20-30 were noted both in the Olsen Lagoon area & in the Fort Belknap Lake vicinity. There were seen on the mud flats on the open tundra. Apparently they were moving (although the movement was not in one direction).

11 August Pitt Point, Alaska

Many present. Flocks of 15-20 are present all over the tundra. All the birds recovered in traps this morning seemed to have completed their body and tail molt.

12 August Pitt Point, Alaska

These flocks are still present and the birds seem to be the commonest ones present.

14 August Pitt Point, Alaska

Due to the heavy winds during the past two days, the numbers of longspurs seen seems to have diminished. This may be due to only a suppression of them

Holmes, R.
1959

12.

Calcarius lapponicus

14 August Pitt Point, Alaska

activities and therefore are not seen as often. Fewer were caught in the traps, also.

16 August Pitt Point, Alaska

A few of these birds were noted today, but not like they were seen the first day or two. Also fewer were caught on the trap lines during the last 4 days.

19 August Barrow, Alaska

These birds are present in small numbers. They seem to be scattered over the tundra; no concentrations have been seen.

21 August Barrow, Alaska

A few small groups seen - the bottom of Footprint Lake. These were feeding among the drain areas of the lake bottom (among the mosses, etc.). Very few were seen on the tundra.

24 August Barrow, Alaska

Very few longspurs have been noted in the Central Marsh - Beach Ridge area. Occasionally a group of 2 or 3 will be encountered, and also individuals are seen

Holmes, R.
1959

Calcarius lapponicus

13

24 August Barrow, Alaska

irregularly

26 August Barrow, Alaska

Little bird activity was again observed in the Central Marsh area. Very few have been caught in the trap lines here.

28 August Barrow, Alaska

6 seen in Footprint Lake and 2 on the area of high polygons to the west of the lake. None seen in both areas.

1 September Barrow, Alaska

None have been seen during the past three days, and none have been caught in the trap lines.

3 September Barrow, Alaska

None have been seen during the last two days.

Holmes, R.
1966

Calcarius lapponicus

28 May Barrow, Alaska

These birds were common over the tundra (where it was exposed). The flight song was ^{heard} (given) several times during the afternoon & evening.

30 May Barrow, Alaska

Wherever there was a large patch of exposed tundra, there are at least 1 pair of these longspurs. Several times during the evening, territorial conflicts were noted & chasing usually ensued. Males were seen displaying frequently.

1 June Barrow, Alaska

Much chasing by ♂ was noted. Territorial disputes were seen in several areas of largely exposed tundra. This combat consisted of a chase by the settled ♂; no physical contact was observed.

10 June Barrow, Alaska

The number of birds present seen relatively low. The males are vigorously defending their territory, but ♀s seem to be scarce.

17 June Barrow, Alaska

A nest located in the drum area with 5 eggs. It was situated in a crack in one of the high polygons. The

Holmes, R.
1960

Calcanus lapponicus

2.

17 June Barrow, Alaska

I became very excited and gave a sharp, shrill note as she tilted back & forth. She also did a distraction display where she lowered her wings which were spread out horizontally & lowered & spread her rectrices. The wings were then quivered as she hopped about, excitedly. The number of longspurs seems low this year, and only a few nests have been found this year by anyone.

18 June - A flock of 40 or so seen feeding on the beach ridge

23 June Ikeravik (Barrow), Alaska

There appears to be about 3 pair on the plot (40 acres).

Only 1 ♂ was heard displaying.

29 June - A nest found just west of the Butler building containing 6 young, which are nearly fledged.

2 July - a few pairs are still seen on plot but aerial display has completely stopped. Also single ♂ or one often seen & sometimes 2-3 may be feeding together.

7 July Barrow, Alaska

Several broods of young were seen today.

Holmes, R.
1960

Calcarinus lapponicus

3.

7 July Barrow, Alaska

most were in the vicinity of the dump area.

18 July - Longspurs are now seen only occasionally and most of these are juveniles or molting adults.

23 July Meade River, Alaska

Numerous longspurs were present around the village + fence at the coal mine. The majority were ♀♀ + young, but a few molting ♂♂ were also present.

26 July Barrow, Alaska

Longspurs are fairly rare around here now. They are seen only occasionally.

29 July - Several ♀♀ + immatures were noted in the drier portions of Central Marsh. Most of these were feeding in the old cat tracks + ruts.

2 August - Many were noted today on the floor of Footprint Lake. There appeared to be ♀♀, juveniles + molting ♂♂ present. All were feeding among the grasses.
Estimate - No. $\frac{1}{2}$ of F.T. Point - 200+ longspurs.

Holmes, R.
1960

Calcarius lapponicus

4.

3 August Barrow = So. Barrow 3, Alaska

Numerous birds were again seen in Footprint Lake. Others were also seen in Dry Lake, but very few were actually present on the tundra - where only an occasional bird was noted. One albinus (Juven.) bird was collected South of Loom Lake (see Make - for specimen data).

15 Aug Barrow, Alaska

During the past week, occasional birds have been observed on the tundra. Several were caught on the Bear Ridge in the traps.

25 Aug - Very few are now seen, occasionally one will be caught in the traps.

30 Aug - a few scattered individuals seen today below Central Marsh

Holmes, R.
1961

Calcarius lapponicus

3 June Barrow, Alaska

Longspur again numerous. ♂♂ are singing everywhere. Pairing does not seem to be complete, since chases involving 3 or 4 birds are occasionally seen (i.e. 2 ♂♂ chasing a ♀, etc.), but in many cases a ♂ + ♀ are encountered together with no others nearby.

4 June - Numerous birds seen today. 1 pair was seen copulating (#1086 & #1087). The ♂ stood on the ♀ with his wings held back & out, i.e. like dracula display / the oval. His head was held high & apparently the wings were used in balance.

7 June Longspur seen abundant near Voth's areas. Pairs are generally settled, but a flock of 6-8 ♂♂ was observed in 1 location. They were not chased by a paired ♂ nearby, but they may have been off the territory.

10 June 1 nest found near Voth's area - with 5 eggs. Another nest found, just S. of Br. Hn's area with 4 eggs.

17 June Above nests are still intact - with the same complement of eggs. ♂♂ are continuing to display; ♀ are mostly incubating.

20 June Another nest with 6 eggs in same rough spot off ground, half way to the new airport site (in Voth's area) - along the road.

Holmes, R.
1960

Calcarius lapponicus

24 June Barrow, Alaska

a nest was found in the crooked edge of a polygon, south of Wobb. slough. 4 eggs + ♀ was incubating. ♂♂ singing is starting to drop off; only occas. songs were heard today.

4 July a few seen in the B.R. census plot, but no young or nests found. The numbers here seem to be lower than last year, but were relatively good. Two fledglings seen flying near Voth Road. The nest near the N. end of the road - from a June 10 - failed - destroyed? - also the one weasel took just west of the road. The nest near the aerial tower was destroyed by A.F. Workers.

7 July Flying young seen No. 1 Voth's area - little activity.

15 July Very little activity has been noted. Occas. Adults are seen, including ♂♂ in seemingly good plumage. No bob-tailed young have been noted recently, and birds generally appear to be scarce.

24 July None seen in the No. 20 acres of the B.R. plot during the afternoon.

26 July - Small groups of 3-4 seen between Footprint & Ikroavik & again near the wanigan.

Holmes, R.
1961

Calcarius lapponicus

2 Aug Barrow, Alaska

a small group of 8-10 seen near the
Wanga at Ikroavik. - appeared to be
all juv.

9 Aug Sev. seen between camp + Reussit
plots.

11 Aug Quite a number (30+) seen near
the cockpit census plot.

18 Aug Longspurs seen quite common on
the tundra with individuals -
small groups of 3-5 seen
fairly regularly.

Holmes, R.
1962

Colaptes auratus

28 May Barrow, Alaska

Flocks of 12♂♂: 1♀; 6♂♂; 22♂♂; 3♀♀ + 15♂♂
seen on the open areas near Voth +
Denali ridge. Two or three single
birds were also noted and several
aerial displays were ^{being} performed - the birds
in full song.

29 May - 10♂♂: 1♀ near Elson-Wohlschlag - sev. indiv.
♂♂ along the beach ridge - seemed to be
spaced out. - 2 seen with ♀♀ - as if paired.
Several individuals seen so. of Wohl. Flg.
+ north of Oskvik. Small flock of 6 near
Voth Area.

30 May - Much singing today - in marshy areas -
the tundra - longspur could be heard.
W. flock seen today - only pairs + indiv.
♂♂. One combat was seen between
2 ♂♂ - finally 1 chased the other off.

1 June Small flocks seen along Elson bluffs -
+ numerous scattered individual ♂♂
+ pairs. Several ♂-♂ encounters
were noted where the two birds would
chase each other around and the
tundra + occasionally coming into physical
contact with each other - in quite aggressive
maneuvers.

2 June Numerous pairs + individuals seen. Several
♂-♂ chases - near displays

Holmes, R.
1962

Calcarius lapponicus

2

3 June Barrow, Alaska

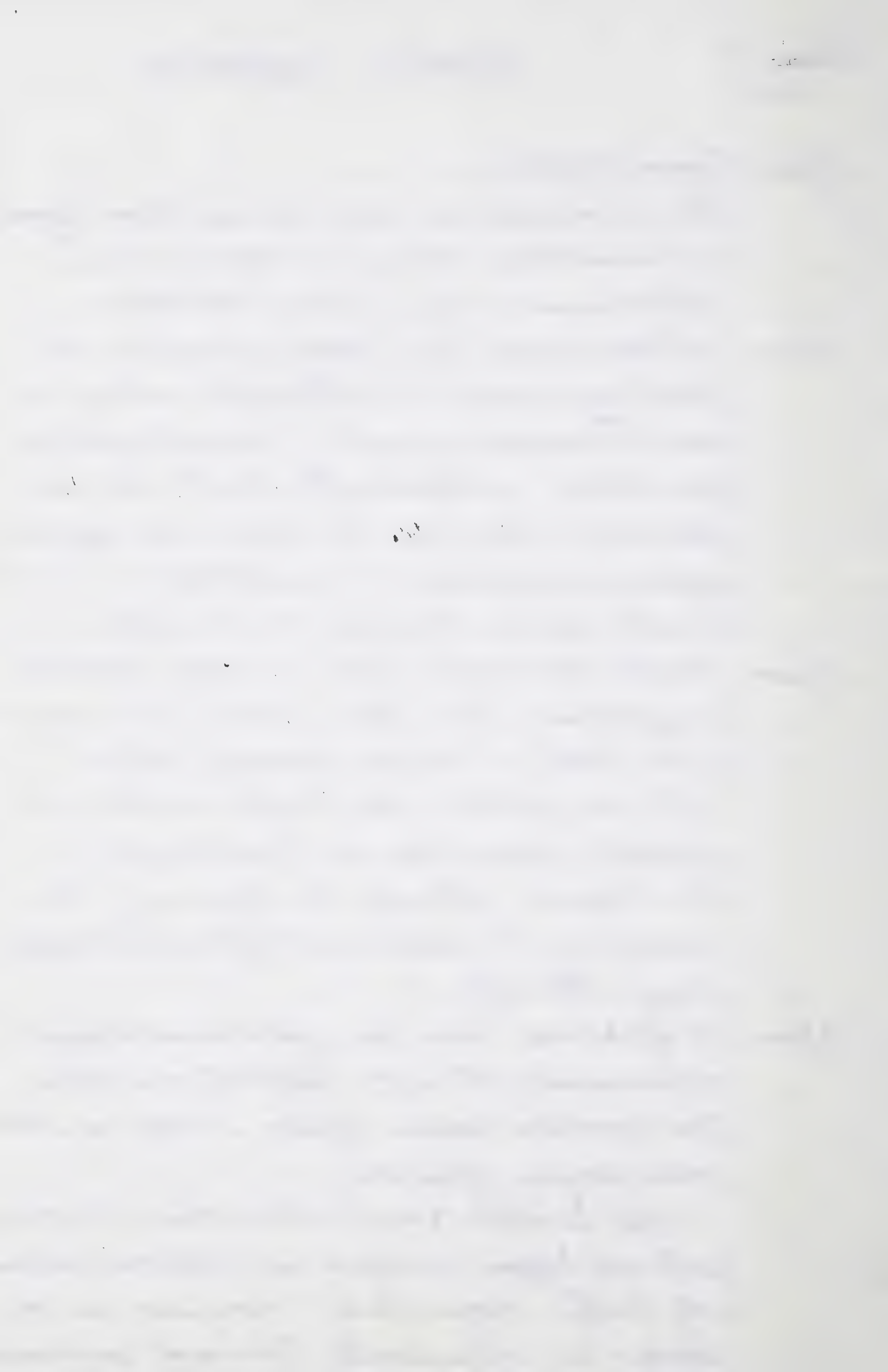
Pairs + individuals seen along Elson Lagoon
+ at scattered places of vegetation
on the beach ridge + near Voth area.

4 June - ♂ seen with 10-15 pieces of grass in its
bill (cross-wise) - he lifted the ~~tail~~ ^{feathers} ~~feathers~~ ^{feathers} in
turn + ^{then} toward his head - finally settling
them down + flying off. He & his mate
standing - less than 6' away - but apparently
paying no attention. - courtship? - no nest
or nest cup was found in the vicinity.

5 June Another ♂ seen with a dozen pieces of
vegetation - 2-3" long - held cross-wise
in his bill - he was among other
♂♂ - a flock - he & his mate nearby. He
would raise them up - head high +
the lower then to the ground - then
went a 3-4 times - before he dropped
them + flew off.

9 June No flocks have been seen for several days -
occasional ♂ to ♂ conflict can be noted.
Most birds are seen in pairs + there is still
much singing going on.

Nest located SW of Britton's Area (75' east of
south salt lagoon + 100 yds W. of Voth road - (in line
with Kauff's flagged stake) - now with an old
stake - 6' to the east. This nest contained
5 eggs at 1400. + was located on the south



Holmes, R.
1962

Calcarius lapponicus

3.

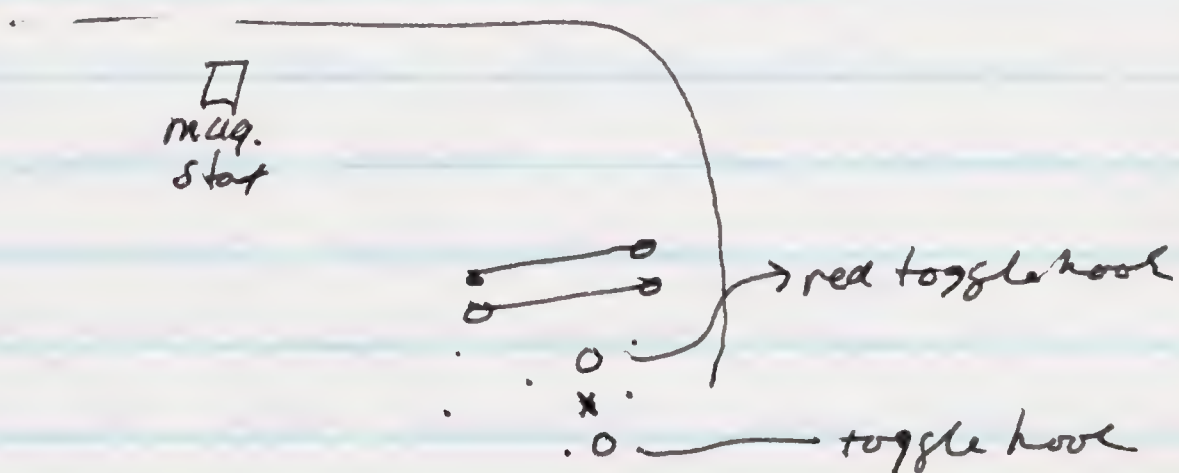
9 June Barrow, Alaska

side (just below the edge) of a relatively low polygon.

A second nest was found on the north side of barrel ridge - 100' west of road + 200' north of the row of barrels - stone at 8' to the east - on west side of medium-sized polygon - contained 6 eggs with ♀ incubating at 1500.

13 June Another nest in Britton's Area - 300' west of road - 100' N of Polar in Britton's Area - 6 eggs. Previous nest in Britton's Area - still has 5 eggs.

16 June 2 nests reported by McNamara - 1 near stake line on corner of B.R. - with 5 eggs + 1 stone!



Another - 100 yards away -

20 June ~~Five~~ ^{one} - 5 eggs (3.0-3.1)
21 June ~~Five~~ ^{5+6 eggs} - - - - -

Birds generally scarce or at least not displaying - due to storm wind

Holmes, R.
1962

Calcarius lapponicus

24 June

Barrow, Alaska

Nests on the plot were all active - ♀♀ were incubating. Another nest found - set into a moss cup - with 5 eggs. Several displays ^(singing) seen & heard today - but chasing was not observed.

26 June

3 Longspur nests

1) in Curlew Saps area. 1 B.R. - 2 eggs + 4 young

2) " " " " " " " " - 3 young

3) 30' - N. of P.A. - moss plot - 5 3-4 day old

28 June

Nest close to Britton's Area - 5 almost fluffy young - 1 starting to leave nest. In VOR Area nest again contained well feathered chicks. Flock of 6 ♂♂ seen near VOR Area.

29 June

Nest in VOR Area with young.

2 July

All nest - plot with young - one nest has disappeared entirely.

9 July

fledglings are seen frequently now.

12 July

Flocks of molting adults + young birds are now encountered on the tundra.

1 Aug

During the last week - small groups of ⁽³⁻¹⁵⁾ molting adults &/or juveniles have been noted at various places around the Barrow area.

6 Aug

Large number - in groups of 10-30 seen flying back & forth across the tundra both in ridge & in wet marsh areas.



Holmes, R.
1962

Calcarius lapponicus

17 Aug Barrow, Alaska

Small flocks of 10-15 encountered frequently
in the tundra - dwarf - tundra marsh
areas. Most of these are molted adults
& immatures & appear to be moving,
are not settled

21 Aug The large flocks are no longer seen - only
small groups of 1-4 birds - scattered
but over the tundra.

Holmes, R
1963

Calcarius lapponicus

27 May Barrow, Alaska

Lagsspar were scattered over the open tundra - mostly in singles (♂) or in pairs (♂ + ♀). Two chase between males were noted. Several advertisement songs were heard. Activity was light.

28 May - Frequent in the drum area + near Juk. Not much singing going on - but several ♂-♂ chases have been noted.

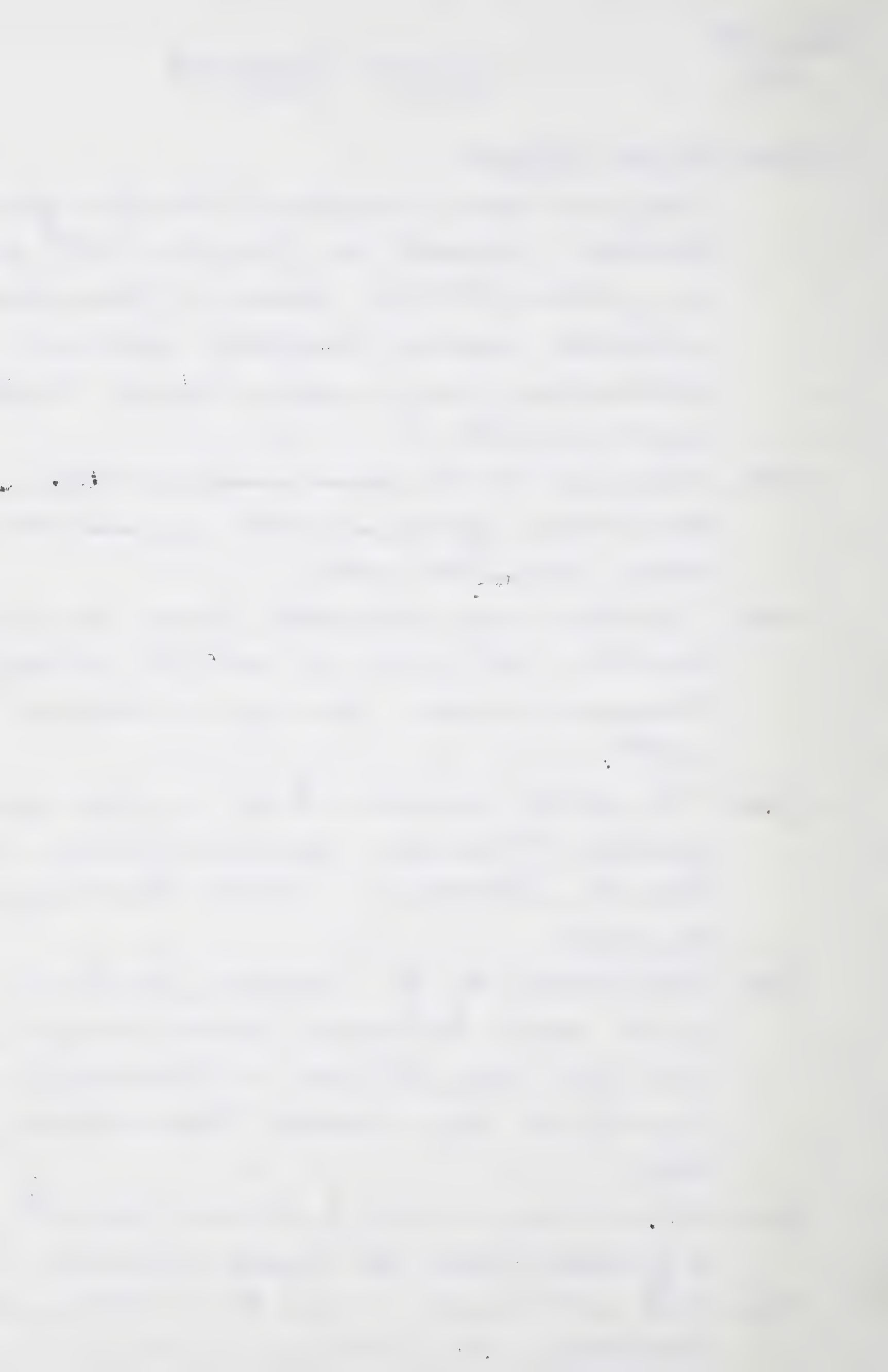
30 May Still the most abundant bird on the tundra but singing is not yet intense. Occasional chases are seen - (between 2 ♂♂).

2 June - The most common bird on all open patches / exp. tundra visited today on trip to Ikroavut - most birds associated as pairs.

7 June Nest building by ♀ - carrying feather L. Nest under Arctophila moss clump on low flat-top polygon - E. side bluff. Copulations seen several times during the day.

8 June Nest with 5 eggs + sitting ♀ on side of mound 16' off cakeater Road near Traps III A+B.

12 June Nest with 6 eggs + inc. ♀ - on Removal Plot (E. side) - on west side of mound - with Arctophila moss & sod.



RT4

1963

Calcarius lapponica

17 Jun Barrow, Alaska

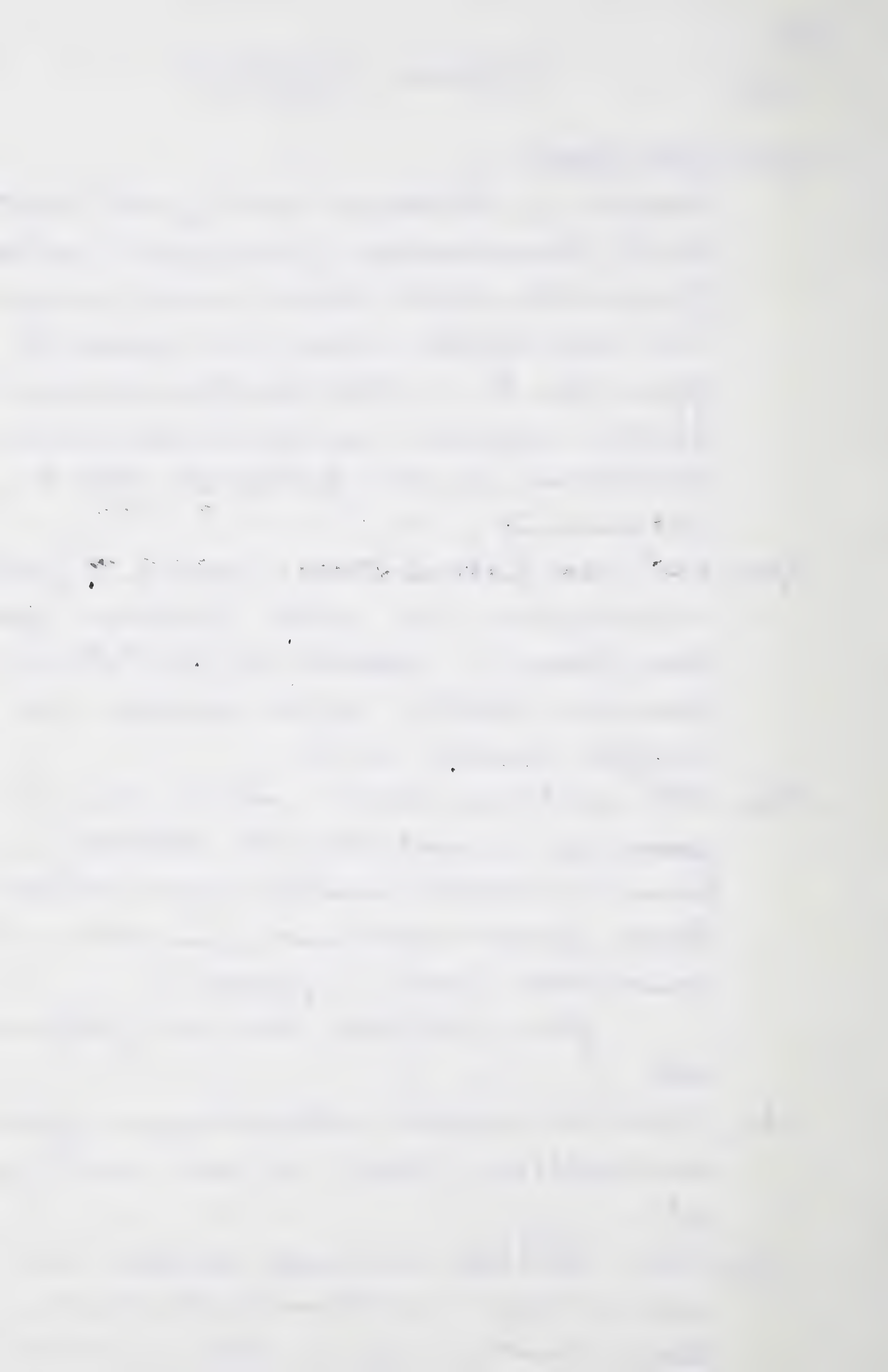
Numerous in shrub cover plot but due to tremendous sandpiper activity these were birds were not counted. One nest located near 4.1 - with 6 eggs + inc. ♀. - Nest located inside a ball of moss - which had been hollowed out - probably by a lemming.

26 June Nest near Cabaret Road - found a ♂ juv. - is now gone - it either failed - young have fledged? - saved (2-4) ♂♂ are now seen together - either feeding or hanging around a ♀.

29 June Nests & plot were intact - ~~but~~ 1 with ~~young~~ eggs: 1 nest had been destroyed - since the whole nestcup was overturned & laying saved under away from where the nest had been - jaeger? 1 flying fledgling seen near 1 footprint lake.

3 July CRNE - 2011 brought in 1 fledgling seen four near Wohl's old sloop - it was not flying yet.

5 July Nests - B. Ridge cover plot checked - nests were empty - 1 catenated young - see census sheets. Snow did not seem to do much harm.



Holmes
1963

Calcarius lapponicus

24 July Barrow, Alaska

Hatching dates for nests -
census plots - are a census re-
sheets.

All birds have been fledged now
for two weeks or more. Adults are
molting & staying on the ground,
frag - among the tall grasses.

4 Aug Flocks 15-30 seen near census plots -
moving across island fence.

9 Aug large flocks 15-30 along beach ridge -
feeding in upland habitat.

18 Aug. Small flocks of adults & juv. on tundra
mostly upland.

Holmes R.T.
1964

Calcarinus lapponicus

4 June Barrow, Alaska

several pairs noted in the drum area - very little aerial activity.

8 June Copulation noted by pair in Pelted's Nest - nest to the first ditch (stage 3 or 4?).

12 June ♀ carrying nest material - No b. ridge

13 June Nest with 4 eggs on B.R. - 3 or 4 sound / in 4 bands.
- Expanded - 100% open - before severe final miss -
lichen hummocks.

14 June Above nest with 5 eggs today.

18 June Nest - NBE. near fallen block box - 5 eggs
" " - near beverage antenna - 6 eggs

20 June Nest - " - west of gulch - 5 eggs

24 June Nest on b.r. near 4 drums (see 13 June) - gone -
no sign of adults - inc. ♀ + egg were present
two days ago. Maybe predated by
wandering parasitic jaeger.

26 June Nest with 3 eggs on b.r. - inst. near beverage antenna.

Holmes, R.
1959

Plectrophenax nivalis

4 June Barrow, Alaska

This bird was noted frequently among the buildings and road areas. It was not seen back along the ridge.

5 June Barrow, Alaska

Several seen chasing each other and uttering a guttural note. Also the males are seen sitting atop a pole, snow bank or a building and singing a bubbling-type song. Copulation was seen twice (in 2 different pairs). At 1330, one female was seen carrying twigs or pieces of grass. At 1930, the males were seen to fly about 50 feet into the air and then float on outstretched wings for 30-35 feet, and then they would either fly up & repeat the performance again or they would fly to the ground. This is in contrast to the longspurs which normally float all the way to the ground.

Halmer, R.
1959

2.

Plectrophenax nivalis

6 June Barrow, Alaska

Many birds seen around ARL and surrounding bldgs. The ♂ were singing from the building tops. No other breeding activity was noted. Several were also seen in the Voth Area, SW. of ARL.

7 June Barrow, Alaska

Several noted in the Drum Area at 1130 but no activity beside feeding was evident. Those in the base were singing.

9 June Barrow, Alaska

These birds are still abundant on the base and in the adjoining drum area. Today, 2 ♂ were seen chasing a female. When the ♀ was feeding, the 2 males fed, but if she would fly off - the males took off in pursuit and at this time fought among themselves. One would attack the other (while on the wing). Conflict was not seen when the birds were on the ground. Apparently territory-sites has not begun yet.

Holmes, R.

1959

Plectrophenax nivalis

3.

9 June Barrow, Alaska

1400-1600. Several birds which appeared to be paired were noted in The Voth Area. One ♀ was collected which contained ova up to 8 mm.

10 June Barrow, Alaska.

These birds seem to be paired if now, for very few individuals are seen. The ♂ & ♀ are often seen chasing each other over the tundra. As a rule, however, the ♂ is the one in pursuit.

11 June Barrow, Alaska

These birds all seem to be paired now, and there are frequent chases across the tundra. Often the ♂ will chase either other ♂ or ♀ and the ♀♀ will often chase other ♀♀. There are rather noisy chases and may last for several seconds?

12 June Barrow, Alaska

One female (accompanied by a male) was seen carrying nesting material. They were on top of the barber shop - but across the "street" from the A.R.L. One pair was seen to copulate. They were both standing on a patch of open tundra.

Holmes, R.
1939

Plectrophenax nivalis

4.

15 June Barrow, Alaska

Several pairs are building nests around the base. One is located under the roof of the barbershop. Another is in a stack of tires behind a shed about 30 yards behind HPL. The nest was composed of straw, ~~sticks~~, grass and mud. No eggs had been laid by this morning. The mud appeared to be stuck on the pieces of grass and it was probably not put there intentionally. At 1330, there were still no eggs in the nest. Also, none at 2200.

17 June Barrow, Alaska

The nest in the stack of tires contained 2 eggs at 1100. The pair were not present nor near the nest at this time.

18 June Barrow, Alaska

The above nest contained 3 eggs at 1000.

19 June Barrow, Alaska

The nest contained 4 eggs at 1200.

These birds are still seen frequently in pairs and nesting may not be completely underway yet. However, most pairs probably have begun their nesting. The males can be heard singing throughout the tundra at all times during the day.

Holmes, R.
1959

Plectrophenax nivitus

5.

21 June Barrow, Alaska

The nest in the tirs now has 6 eggs, and the female is incubating. Several pairs are still seen flying and chasing over the tundra.

28 June Barrow, Alaska

The hunting are now paired off and are seen only occasionally. The males singing have slowed down with songs heard occasionally. The nest in the tirs still contains 6 eggs.

30 June Barrow, Alaska

The nest in the tirs still contain 6 eggs; none are hatching yet.

3 July Barrow, Alaska

0900 - All young have hatched from the nest in the tirs. The young have a considerable amount of feathers for just having hatched.

6 July Barrow, Alaska

These birds were common today especially among the many drums where are stocked behind A.R.L. Both males and females were present, and both were feeding. Several were seen under plumose, apparently molt is underway.

Hilmes, R
1959

Plectrophenax nivalis

6

7 July Barrow, Alaska

These birds are still quite common over the tundra and especially near man-made dwellings or among the drums, etc. One male was singing behind the hut for about half an hour during the evening. Another was heard singing near HHCs in the afternoon. The birds are still often seen in pairs.

8 July Barrow, Alaska

A nest was found on the east side of the Butler Building, which contained 7 eggs. Also the "alarm or distraction" note was heard from some burtings just east of a lot who apparently had young out.

12 July Barrow, Alaska

The two nests (one on west side of the Butler building and one in trees) both have young which are about ready to leave the nest.

16 July Barrow, Alaska

A few birds are seen on the tundra. especially near Britton's area and near APL. Song has not been heard recently.

Holmes, R.
1959

Plectrophenax nivalis

7

20 July Barrow, Alaska

Very few of these birds were seen during the last 3 or four days. Even around the house they were scarce. No young have been observed recently. One male was heard last night as he gave parts of his song.

23 July Barrow, Alaska

Two juveniles were seen immediately behind the lab. Otherwise, none have been seen. Even the adults are now rarely observed.

25 July Wainwright, Alaska

Several broods were noticed around the village. They have been out for a couple of weeks, and the young are now attired in the smoky gray plumage.

28 July Pitt Point, Alaska

Several seen near POW 1.

31 July Barrow, Alaska

Three were seen near Freshwater Lake. Otherwise none were seen during the time spent in the field.

3 August Barber's Point, Alaska

Three were seen chasing on Colter Island, about four miles E of Barber's Point.

Halmer, R
1959

Plectropterus nivalis 8.

5 August Barrow, Alaska

About 10 were present along the road adjacent to freshwater lagoon. They were flying back & forth between the lagoon & the dump.

11 August Pitt Point, Alaska

A few are seen around the base.

15 August Pitt Point, Alaska

Around the base, is the only place where these birds are now seen.

There seems to be the remnant of a family group which stay around the area. No others are seen.

20 August Barrow, Alaska

Very few have been noted during the last 2 days here at Barrow.

3 were seen near Freshwater lagoon this evening.

24 August Barrow, Alaska

3 seen along Freshwater lagoon and 2 seen behind APR.

26 August Barrow, Alaska

Several seen around the base and among the dump. None have been seen out on the tundra away from these areas.



Holmes, R.
1959

Plectrophenax nivalis

9

28 August Barrow, Alaska

One bird found dead on the west side of Footprint Lake. Apparently its head had become lodged among the tracks (deaths) of a discarded weasel track.

31 August Barrow, Alaska

Three seen along the shore of middle saltwater lagoon and 6 seen in camp.

3 September Barrow, Alaska

Two seen near middle saltwater lagoon and three in Voth's Area. Otherwise they were rather scarce.

5 Sept. Barrow, Alaska

A flock of 12 seen along the shore of middle saltwater lagoon. One seen at A.R.C.

Holmes, R.
1966

Plectrophenax nivalis

28 May Barrow, Alaska

These birds are now common around the base and singing and fighting was noted several times. Apparently territories are already established.

30 May Barrow, Alaska

There can be heard singing all around camp and in Britton's Area & occasional other tundra localities. There appear to be little territorial defense at this time. One bird was watched for an hour, and no encounters were made during this time. Its main activity was singing from the fence behind the lot with occasional flights to a open piece of tundra to feed. The female was nearby, but no association was observed.

1 June Barrow, Alaska

Much fighting was seen today in the vicinity of ARL. Three birds, 2 ♂ + 1 ♀, were involved, but the ♀ was not very active. The 2 ♂ would "wobble" around on the ground & the female can often be seen in an aerial chase. This went on for nearly 10 minutes, until 1 ♂ flew off, & the remaining male then joined the ♀.

Holmes, R.
1960

Plectrophenax nivalis

2.

15 June Barrow, Alaska

♂♂ continue to sing vigorously from the poles & buildings around camp. Nests have not been found yet this year, but undoubtedly they are now nesting. Birds are seen quite commonly in Voth & Britton's areas and along the beach ridge.

23 June - Ikroavik, Alaska

None have been seen here (during the last 2 1/2 days we have been here).

29 June Barrow, Alaska

Two nests found around the base. One is in the tower behind the academy building. The young were partly grown (number unknown). The second nest was under the roof of a quonset hut just across from the C B building.

7 July Barrow, Alaska

Nest 1 The young are now out - both around the lot just near Apes

18 July - Snow Buntings are now seen only around the dumps. Four are quite common.

25 July Many of the young are now out & can be seen most commonly around the dump & park & at the dumps.

Holmes, R.
1960

Plectropterus nivalis

3.

30 July Barrow, Alaska

Very few have been seen during the past few days. Occasionally individuals or young are seen near the dump areas or in camp, but not on the tundra.

15 Aug - None have been noticed during the last two weeks.

25 Aug Several individuals seen near the dump areas. Most of them now have completed their molt.

3 Sept Several flocks noted today. One of about 25 birds was along Voth Creek. About 15 were flying back & forth around the Footprint Gate. Another group of 8 were near the New store / Ikroavik.

Holmes, R.
1961

Plectrophenax nivalis

3 June Barrow, Alaska

Several birds singing in camp. 1 pr
visited the weasel near Elsenborg
when I was stopped.

7 June Bunting continues to be common with numerous
birds seen in Voth's & Britton's area (1 several
at Ikroavik yesterday). There seem to be
fewer in camp this year - but this might
be due to greater disturbance.

13 June Birds still quite active on the tundra,
especially near Voth's area - but also
at Ikroavik where a pair is apparently
going to use the wanya for a nest site.

17 June Nest found in LVT tracks - (on vehicle
tracks) - behind APC buildings - 6 eggs.

4 July Still present around camp, partial
song heard today.

6 July Flying young seen around camp & in the
drum area.

7 July Flying young seen near Voth's area.

10 July The nest in the LVT tracks - contained
3 - almost fledged young - There were
branches. A nest in the observation
weather tower, so. (The lot (aerology) -
contained 2 young, one of which was
banded. The other flew away. - The
Adults here were very excited & ad birds (♂ & ♀
& other flying in Voth's) all became excited.

Holmes, R.
1961

Plectrophenax nivalis

16 July Barrow, Alaska

A few still seen around camp. Both
Adult & juveniles are present. No
Singing has been heard.

19 July - 1 partial song heard here at the house

2 Aug - See occas among the drums & near
the gravel area, No. of Britton's Rec.

10 Aug - See around the camp & drum
occasionally - not too common.

Holmes, R.
1962

Plectrophenax nevadensis

28 May Barrow, Alaska

Pairs seen chasing around the camp & several songs have been heard. Individuals & pairs are seen near Voth area - near Family Lagoon & 1 ♂ singing was at the wamwag at Ikroavik.

29 May - Flock of 15 near Voth area - mostly ♂♂ - 1 ♂ singing - camp this evening.

30 May - Several pairs "investigated" the wamwag for possible nesting site & a flock of 6 seen near Voth & sun. 1 male seen doing an aerial display - gliding & then going on out-stretched wings singing.

1 June Small flock of 5 ♂♂; 2 ♀♀ - seen in flight - fl. hb. Several pairs seen in Britton & Voth area. & a small group about 4 ♂♂. 1 song heard.

2 June 3 birds singing in camp - several - tundra near Elson Lagoon

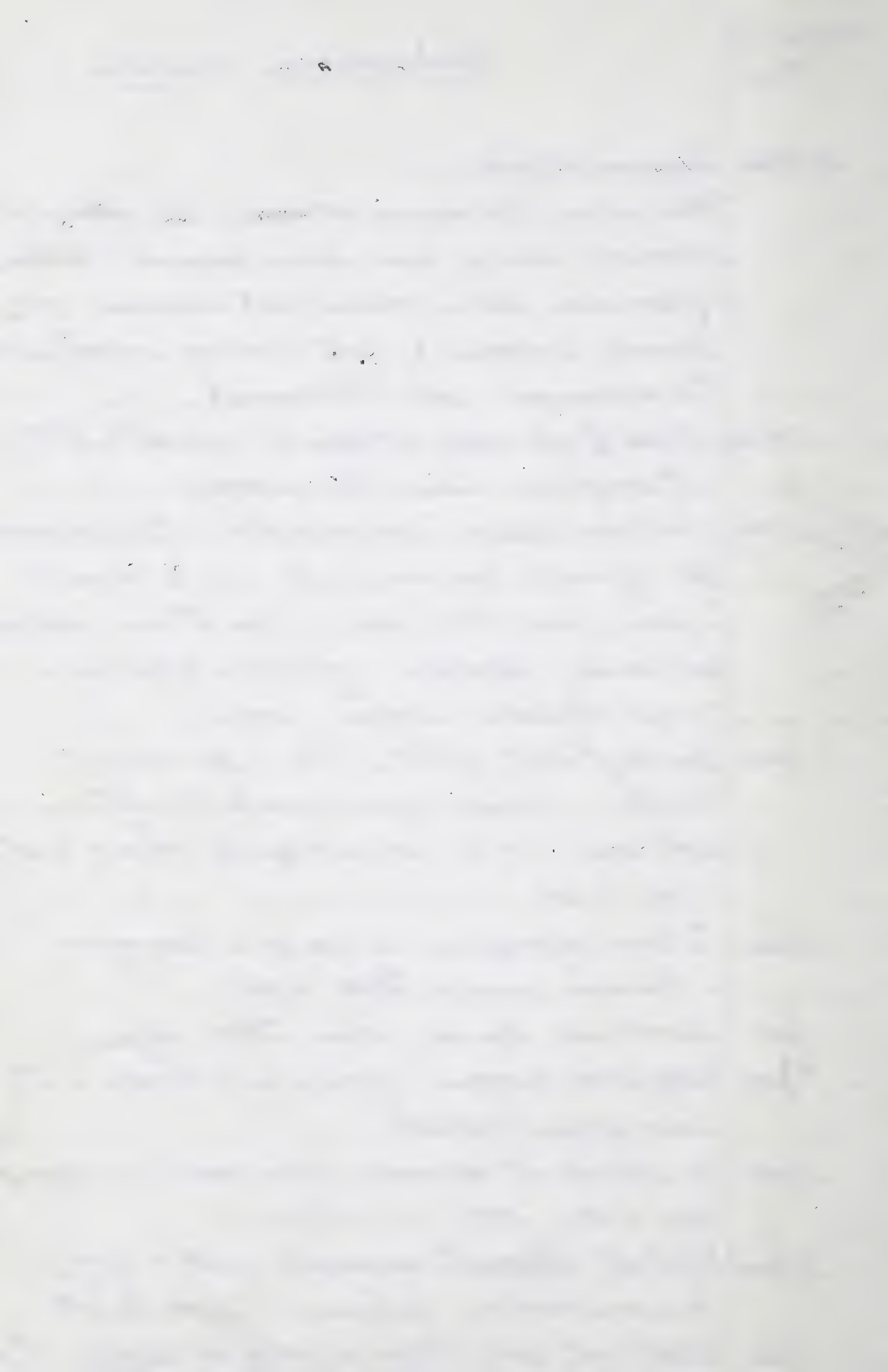
3 June Scattered birds near Elson Lagoon

9 June Many birds around camp & in the tundra - ♂♂ heard singing frequently.

14 June Pr. with nest at wamwag - in an area - no eggs yet. - Also 2 other ♂♂ in vicinity.

20 June Nest at Ikroavik wamwag with 6 eggs - 2 incubated & being fed by ♂.

1 July Ikroavik nest with 5 young & 2 eggs at 2000. ♂ & ♀ attentive.



Holmes, R.
1962

Plectrophenax nivalis

2.

9 July Barrow, Alaska

Adults still feeding young in warming unit.

12 July Young are out but many are still being fed by the parents. The young at the warming were seen for the first time in the AM.

1 Aug Small groups of young & a adult are now seen in Britain; Area - & other localities near the coast (i.e. the camp).

6 Aug Many juveniles seen around camp & dump area but rarely in flocks.

29 Aug 1 black-white 'downy' young - just able to fly - seen on the gravel beach 1 mi S. of Point Barrow. No others noted.

21 Aug Adults: few molting individuals are now seen & there are all over camp & in the dump area.

Holmes, R.
1963

Plectrophenax nivalis

27 May Barrow, Alaska

One ♂ singing in camp. Two pairs seen -
1 along north beach ridge, one near
Eisen lozon. both feeding by probing
in the mossy tundra.

28 May Several seen in drum area & near Britton's area.

1 June Singing ♂♂ in camp, & seen carrying
nesting material yesterday. Numerous
pairs on Eisen bluff - feeding - inspect
weasel, etc.

12 June ♀ carrying nest-material into old weasel
hole - south end of Fresh Lake.

24 July Quintings have been seen frequently in the
vicinity of the camp & drum area.
One pair ~~has~~ nested near the Shroane
caverns - juveniles are out &
flying now.

Holmes, R.T.
1964

Fleethymna nivalis

4 June Barrow, Alaska

Several pairs & single - down area. Occasional
songs given

11 June Copulation witnessed - on telephone pole behind lab -
preceded by a loud song (1x ♂)

17 June Nest with 6 eggs under large wooden frame on
beach ridge - nest built on flat ground - back
under the flat structure. Another (with 5
eggs) in 5 gal. gasoline can -

Holmes, R.
1959

Acanthis flammica

3 June So. of Fairbanks, Alaska

These were seen frequently all the way from Fairbanks so. to within 20 miles of Paxson.

4 June Uniat, Alaska

Several seen at the landing strip - flying overhead

5 June Barrow, Alaska

Several seen near Nuwak.

8 June Barrow, Village, Alaska

1 seen so. of village.

15 June Barrow, Alaska

A pair was seen just east of the drum area. They were of the type known as the Hoary Redpoll. However in light of present opinion, they can be considered the same as the Common Redpoll (A. flammica)

17 June Barrow, Alaska

At least 12 birds were present on the drum area between 1830 and 1145. They were seen feeding among the large areas of dried grasses.

19 June Barrow, Alaska

Several seen along the beach ridge and in the drum area.

23 June Barrow, Alaska

A flock of 8 was noted near the beach ridge and also _(one)

23 June. Barrow, Alaska

near The drum area. They were flying sporadically, would settle and then fly again. Chasing among members of the group was quite common.

24 June. Barrow, Alaska

Several more groups of 6-12 birds were seen flocking over Theundra. They would fly from one area to another, stop and feed, and then move on again.

Definite pairs are seldom noted

30 June. Barrow, Alaska

Several seen around tundra and around The base. The birds seen to be paired off now

6 July. Barrow, Alaska

Several noted in The drum area and near A.C.S. They were all seen in pairs.

10 July. Barrow, Alaska

One pair seen in The drum area.

Holmes, R.
1961

Acanthis flammea

8 June Barrow, Alaska

Three seen together in the gravel area near
fresh lake.

9 June - 4 seen in same area as above.

3 July - nest reported by Dr. Folk - to be near
the west end of camp - on construction
materials - near Beach. - "eggs".

5 July - nest with young reported by J. Kelly
near the NE end of the airport on a pile
of boxes. - with just-hatched young.

7 July 1 nest near Beach at W. end of camp -
reported deserted - young dead in nest - Folk.

Holmes, R.
1962

Acanthis sp.

Barrow, Alaska

23 June 2 seen near magnetic station on brown
ridge. One was .5

Holmes, R.
1963

Acanthys SB

15 Jun Barrow, Alaska

Several small flocks of 3-10 birds along
Foul Cove - 2 (pair?) in Shrook
census plot.

21 June Several - Shrook plot - mostly birds
flying over - 1 on ground.

25 June 1 bird - plot. 2 seen near arm
area - AACS.

10 July 13-4 along Foul Cove

Holmes, R.
1964

Acorn This

5 June Barrow, Alaska

2 flying north along the beach ridge.

16 June 1 flying over beach ridge - heading north.

18 June 2 together - kept together at west end of
Tregulien IX, X.

Holmes, R.
1960

Acanthis "hornemanni"

5 June Barrow, Alaska

2 heard flying over ARL.

28 July - Several have been seen during & lost several days - near Fresh lake. There have been seen feeding along the shore of the lake & in the ponds across the road. Several were also seen at Meade River Coal Mine on 23 July.

RTH
1963

North EISA Removal

27 May, Barrow, Alaska

Began removal / birds from tundra colony,
EISA Lagoon - between Brant Pt. + area -
100 yard no. / W. side of lagoon - see next page.

BIRDS TAKEN TODAY

2 puffins (♂?)

2 ♀ melanotos

1 ♂ alpeino - at south end

29 May

- 2 ♂ PS - seen - no / W. side.

2 BS . " near Brant Pt.

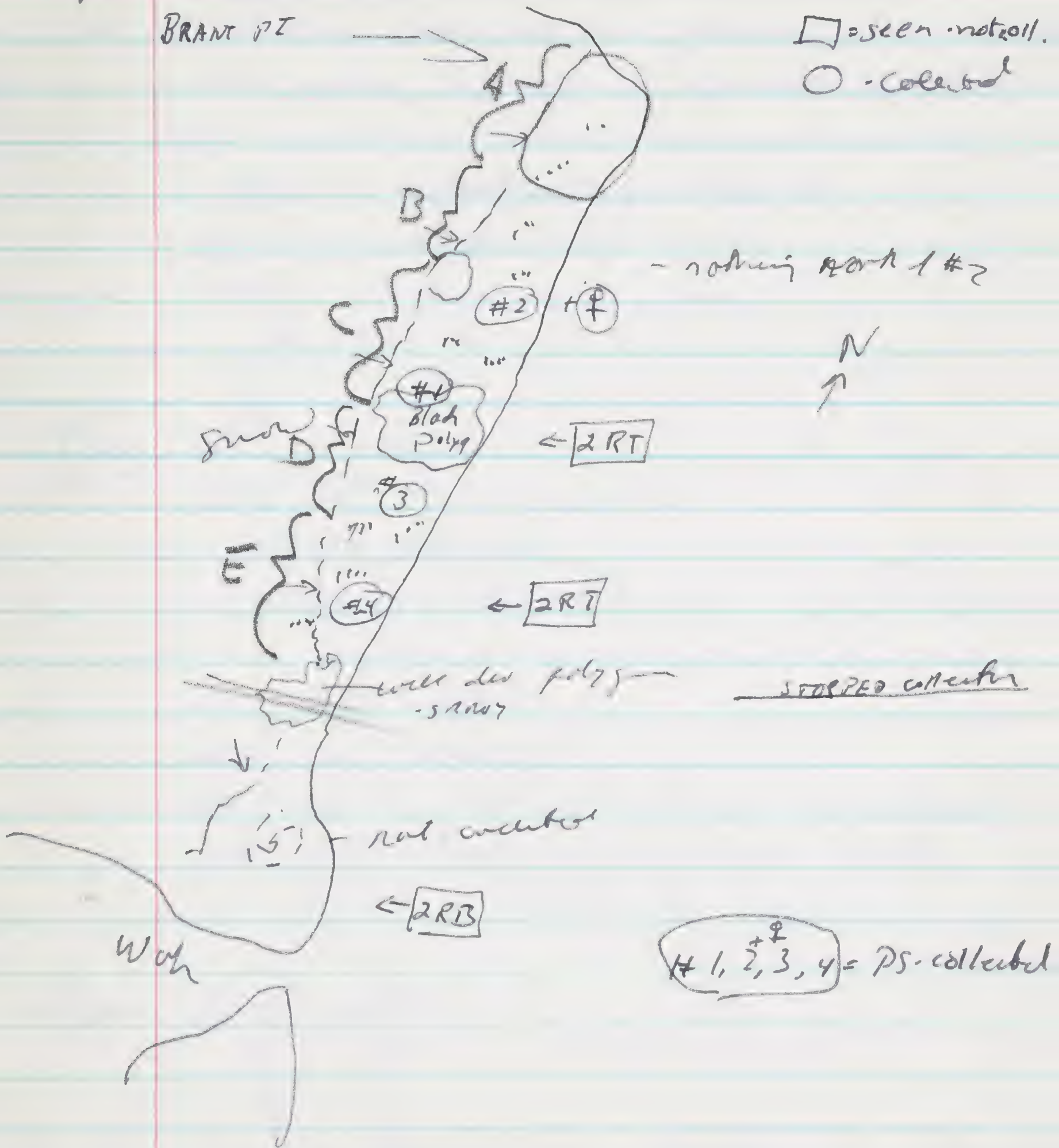
1 June

2 ♂ PS . 1 collected - No 1 Block to

RTH
1963

NORTH Elson Removal

3 June



1 June, R
1963

Removal

3 June Barrow, Alaska

#1 taken from Northern edge of C - standing very close
then feeding in house. None seen north there

2 RB (pr.) collected at southern edge of B -

Flod / 4 RB at 10. end of E - 1 coll.

2 RP

1 RT at 5. end of C

4 E

8 June - SP - in South B -

12 ♀ - 2 ♂ PS - in South B

1 BUFF-BR STD

1 DISPLAY PS - ♂

C - 1 ♂ PS - collected

So. C - Flod 16 ♀♀

NID - 2 RT - with nest, 2 Mink - 1 RB display

So. D - Flod / 16 ♀♀ - 4 ♂ - no display activity

E - 2 RT - 1 PS - display (not collected)

10 June A-B - nothing

C - 1 RT

D - 0

E - 1 RB display - not coll.

1 RT -

1 ♀ + 1 ♂ PS - coll.

RTH
1963

N.E. Removal

12 June Barrow, Alaska

A + B - are not being used -

C - coll. 1 ♂ PS - who had chased sea (3)
bird, ever time to the north.

D - 2 RT - 1 PS - chase - may have been in
one coll. alone

E - 1 RB display - ~~coll.~~ coll.
1 RT - coll.

17 June - Took 1 display in PS - ♂ from C
H " - Saw 1 RB in C - but could not collect

23 June - No D - Took 1 ♂ PS

So C - Saw 1 ♂ PS - chasing 3 wanderers
- also 1 RB - displayed briefly.

26 June - So. C - 1 collected - ♂ PS

No. D - 1 ♂ PS - chasing - a group of 9

- sev. groups of PS near

1 RB - seen

Shorebird Predation

17 July

Nest of PS - on Lk. plab. - #15 with both
egg shells - + 1 egg several inches
from nest.

19 July

Carcass of Ad ♂ PS - eaten - exc - bone +
primaries - on ground - and 1 BR-E 1 BAC

20 July

Carcass of Red Phalarope - eaten down to
bone + a few feathers - some H gulline R.

R.T. Holmes
1964

Stomach Contents

2.

15 June - Barrow, Alaska

C. melanotos - ♂ maclean # 231.

Small fragments of Staph. ^{Ad.} beetle (1+) + Spider (1+)

64-1 - F.A.P. - ♂ C. fuscicollis

2 Tipula carinifrons - med.

3 Carabid beetle - Ad

1 spider

64-2 - FAP - ♀ C. fuscicollis

12 Pedicia - lge

1 lge Prionocera

3 spiders

1+ Ad. Staph.

64-3 - FAP - ♀ C. fuscicollis

4 m. Tipula , 2 Pedicia - lge

1 spider

1 Ad. Staph

64-4 - FAP - ♂ C. fuscicollis

5 lge Prionocera

1 spider, 1 Ad Staph

Tryngites subruficollis - Loysdon, # 64-1

1 m. Pedicia

- small mite

3 Carab. Beetles - Ad

2 Staph - Ad

4 spiders



JR TH
1964

3

Stomach Contents -

PAP #

64-5

C. fuscicollis

1 Staph. Ad

1 m - Tipula

64-6 - C. fuscicollis

1 lge, 3 m Tipula

1 carab. ad. -?

64-7 - Tryngites subruficollis

1 lge Tipula

1 sm. muscid larva

3 lge Pedicia

1 Ad Chironomid -? (med. sized ad - Diptera)

1 pupae - Dipt (muscid) -

3 Stage Ad

2 Spider

64-8

T. subruficollis

Staph. Ad - (sev) fragments, 1 ad carabid

1 "fly" wing

1 lge Tipula

sev bits of green vegetation

64-9 - C. fuscicollis

1 spider, 1 stage Ad

64-10 -

C. melanotos

4 sm Chironom

2 Pedicia - lge

Somateria mollissima - 1 giga - togsda 64-3

→

RAT
1967

4.

Stomach Contents

Barrow, Alaska

- *Somatia* - cm¹¹

50+ Lge Chironomid larv.

30+ 1st Trichoptera larvae (Hemiptera)

few seeds, few .

FAP

64-11 - *C. fuscicollis*

1 spider, 1 Stage Ad.

6 Lge *Pedicia*

64-12 - *C. fuscicollis*

2+ Ad Staph

1 spider

64-13 - *T. subruficollis*

8+ spider

2+ Ad. Staph.

4+ Ad. Carab.

(many beetle fragments)

64-14 - *T. subruficollis*

2 spiders, 1+ Ad. Staph.

64-15 - *C. fuscicollis*

5 spiders

26 intact Lge *Pedicia* larvae (all 13-16mm)

10+ old *Pedicia* skins

2 Lge *Prionura* (21, 22 mm)

64-16 - *C. fuscicollis*

1 Ad. Carabid

8 - old *Pedicia* skins

19 *Pedicia*

Holmes, R.
1964

Stomach Contents

5.

Barron, Alaska

June - Polysticta stellari - Logsdon 64-4 - old nothing distinguishable

FAP - 64-17? C. melanotos - empty

June 21 Calcarius lapponicus -

12 lgs (13-16mm) Pedicia larvae

6 spiders

5 Chironomid larvae (all < 5mm)

1 Ad. Staph.

RTH-2304 - Phalaropus - vegetation fragments

June 23 FAP - 64-18 - C. melanotos

1 Pedicia pupa (+ 3 microtine teeth)

2 Ad Staph

1 femur
1 vertebra

1 Ad. Carab

1 Spider

1 musc. pupa

64-19 - Phalaropus -

bits / macerated vegetation

1 chrysomelid beetle

June 24 Logsdon 64-5. - Squatulola

1 Dytiscid Ad

8 Prionus pupae

13 Pedicia larvae

24 Tricorytus larvae

RTH
1964

Stomach Contents

6.

June 24 Tenaza 155 - Tryngites

16 lge Tipula pupae (mostly shriveled)

2 ad Carabids

1 Spider

FAP 64-20 - Tryngites

fragments of Coleoptera ad (Staph + Carabid)

FAP 64-21 - Tryngites

- 2+ muscid pupae

- 1 small ad. dipter (wing)

2 spiders

June 25 FAP 64-22 Tryngites

- 1 lge Tipula

3 Ad. Carabids

3 lge Reducina

1 Ad. Anthomyid

1 lge musc ad larva

1 " " pupa

H.E. Child 5650 - Tryngites

1 Ad. Staph j 1 Ad Carabid

1 larv. muscid

1 lge larval Sawfly - Tenodesmidae

1 sm ad dipter. wing

1 Ad. Hemiptera

FAP-64-23 Tryngites

2 lge Tipula larvae

1 Ad. Staph

1 muscid larva

sev. vegetal fragments

Holmes, R.

Stomach contents

7.

25 June Barrow, Alaska

RTH-2405 - Tryngites

1 Pedicia larva

3 Lge Tipula larva, 1 Tipula pupa

1 sm ad. wing; 1 ad. anthomyid

1+ Ad Carabid;

1 spider

Macken 239 - C. canutus - Footprint (larva-midge)

- many 100+ small (○ - aculeate)

brown-reddish pupal cases.

FAP 64-24 - Phalaropus

1 Dytiscidae

4 Pedicia Stems

FAP 64-26 - Tryngites

1 chryso. Ad

- many frag. 1 bone +

2+ Carab. Ad

Microtus teeth

4 Lge Pedicia

1 Lge Tipula

RTH-2406 - C. fuscicollis

1 Carab. Ad

3+ Tipula pupae

4 muscid larv.

RTH-2407 - C. fuscicollis - empty

FAP 64-25 - Tryngites

6 Stage 2 Ad

- 1 Dytiscidae pupa

2+ Ad Carab

2+ Ad. Hemiptera

2 Ad. Dytiscidae - small. wings

1964

Stemach 5

26 June FAP 64-27 Trypeta

6 Ad. Carabid

3 spiders

1 Yr Tipula pupa

1 Chrysomelid Ad

8 Staph Ad.

27 June FAP 64-28 - Trypeta

2+ Carabid Ad.

2 spider

8+ Staph Ad.

1 Chrysomelid Ad

4 Yr Tipula larvae

1 " " pupa

FAP- 64-29. C. bairdii18+ Pedicia (15-17mm)

3 Ad. Staph

1 Carab Ad

1 Dipt. pupa

FAP- 64-30 - C. melanotos - emptyMaclean 242 - C. albina

2 Ad. Carabids

1 spider

2+ Ad. Staph

FAP- 64-31. Thalassius

3 spider

5- Chironomid Ad.

10+ Staph Ad.

6+ Carab Ad

+ many fragments
beetles ?

2 Dipt. Ad.

1 Coleop. (larv)

RTH
1964

Stomach Contents

28 June Barrow, Alaska

RTH-2408 - C. fuscicollis

1 + Ad. Carabid

many fragments - beetle?

2409 - C. fuscicollis

2 spiders

4 Pedicic. pupae

29 June HEC 5663 - C. fuscicollis

1 + Carabid Ad

2 + Ad. Tipulid (wing) - sm

1 + Ad. Chrysomelid

3 + man frag Ad. Staph

HEC 5664 - C. fuscicollis

3 + man frag. Ad. Staph

1 Ad. Tipulids (eggs)

HEC 5665 - C. fuscicollis

1 + Ad Chironomids

2 spiders

1 Ad Tip. (egg)

Maclean 244 - C. fuscicollis

3 + Ad. Staph.

1 Ad Chironomid

30 June FAP-64-32 C. fuscicollis

2 + man frag - Ad. Staph

3 + spider

1 sm. wing

RTH
1964

Stomach Contents

29 June RTH-2410 - C. fuscicollis

3 Lyr Tipula pupae

1 Ad Carab

1 Ad Staph

RTH-2411 C. fuscicollis

25 larval Chironomids - (15-18mm)

1 larval muscid

30 June Maclean - T. subruticollis

1 Pedicia pupa

1 muscid pupa

1 spider

FAP 64-33 T. subruticollis

~~Tryngites~~ 1 Ad. Tipula

16+ Ad. Staph

1+, Carabid Ad

6+ Ad Chironomids

2 Lyr Tipula skins

3+ spider

4 und small Diptera

1 Mycetophyllid

FAP 64-34 - Tryngites subruticollis

2+ spiders

1 Ad. Tipula

2 Ad. Hymenoptera

2+ Ad. chironomids

2 Ad. Mycetophyllids

1 Ad Sawfly; 1 larval sawfly

6+ Ad. Staph.

1 Lyr larval Tipula

RTH
1964

Stomach Content

30 June FAP 64-35 - Tryngites subruficollis

1+ Carabid Ad.

1 Sawfly Ad. 1 spider

2 " larva

10+ Ad-Staph

4 Ad. ~~Staph.~~ Anthomyid Ad.s.

6+ small Diptera

2 Ad Chironomids

FAP 64-36 - Tryngites subruficollis

1 Ad Ichneumon, 1 Ad sawfly

4+ Ad-Staph

1 spider

1 Ad Tipula

+ 6? wings - sm Ad. Dipt.

RTH - 2412. - Tryngites

5 Ad. Carabids

1 Ad Chrysomelid

3+ Spiders

1/2 Pedicia larva

3 Ad Staph.

1 July RTH - 2413 C. fuscicollis

1 spider

1+ Staph Ad

1? sm ad. Diptera

1 Ad Pedicia

1 Ad. Carabid.

7 July

RTT. 2414 - C. fuscicollis

1 Ad. Anthrenus

2+ Ad Staph

2+ Ad. Carabid

1 larval pedicaria ; 1 py. ol muscid

1 Ad Tipula

3 sm ad Diptera

4 Spiders

FAP 64-37 - T. subbruticollis C. fuscicollis

3+ many frag Ad. Staph,

3+ " " Spiders

1 sm. ad. Dipt. - wing

FAP. 64-38 - T. subbruticollis

1 Chrysomelid Ad

1+ staph Ad

many tipulated egg - some leg fragment

1 sm Ad Dipt. wing

1 Ad. ~~Diptera~~ Hemiptera

FAP - 64-39 - T. subbruticollis

1 Ad. Chrysomelid,

2 Ad Pedicaria

1 Ad. Chironomid + 3? sm ad. Dipt.

1+ many fragments -- staph Ad

1 Ad. Chironomid

FAP 64-40 - Tryngites subruficollis

1+ Ad Tipulid

3+ many frag Ad. Staph

2+ Ad. Carabid

FAP 64-41 - T. subruficollis

1 lge Tipula larva ; 1 muscid pupa

6+ many frag. Ad. Staph

3 Ad. Chironomids

4 ? Ad. Diptera - small

1 sawfly larva

1 Ad. "

1 Ad Tipula

FAP 64-42 - C. fuscicollis

3 Ad. Staph

1 larval Tricuphena

1 Ad. Carabid

1 spider

RTH-2415 C. fuscicollis

21 Ad. Staph

1 pupa of muscid

1 Ad. Carabid

1 Ad Tipula

RTH
1967

Stomachs

2 July

RTH - 2416 - T. subruficollis

2 Lge Tipula larva

1 Lge Ad. Saw fly or Braconid -

3+ Ad. Staph

3 ? Ad - see vid

2 spiders

RTH - 2417 - T. subruficollis

many frag of Staph Ad (10-15?)

3 sm ? ad. Diptera

[Sev. microtine teeth]

1+ Carab. Ad.

2 spiders

1 Ad. Anisomyia

1 Saw fly larva

RTH - 2418 - T. subruficollis

1 Ad Braconid

2+ Ad Carabid

1+ Ad Tipulid

many frag. Ad. Staph (10+)

6+ Ad. Diptera + 1 Hymenoptera

1 med. larva Tipula

2 spiders

Egg weights

1964

June 19

C. melanotos - collected - So. 1 Vorn's Area

$$\begin{array}{r} 36.3 \\ - 22.9 \\ \hline 13.4 \end{array}$$

$$\begin{array}{r} 35.8 \\ - 22.9 \\ \hline 12.9 \end{array}$$

$$\begin{array}{r} 36.1 \\ - 22.9 \\ \hline 13.2 \end{array}$$

$$\begin{array}{r} 35.7 \\ - 22.9 \\ \hline 12.8 \end{array}$$

(8mm Embryo) - 3-4-5 days

June 22

C. bairdii - collected in drum area.

$$\begin{array}{r} 25.6 \\ ~~26.0~~ \\ - 15.9 \\ \hline 9.7 \end{array}$$

$$\begin{array}{r} 25.4 \\ - 15.9 \\ \hline 9.5 \end{array}$$

$$\begin{array}{r} 25.4 \\ - 15.9 \\ \hline 9.5 \end{array}$$

$$\begin{array}{r} 24.9 \\ - 15.9 \\ \hline 9.0 \end{array}$$

- grams

R. Holmes

1959 - 1964

Species Accounts – Part 4

Mammals

Holmes, R.
1960

Lemmus

Barrow, Alaska

-all observation made between 28 May and 30 June have been recorded in the journal.

1 July

Ikeravik (Barrow), Alaska

During the past couple of weeks since the snow cover has been gone, fewer and fewer animals have been seen. The amount of digging has increased as the permafrost table has lowered, and today it was especially noted that the tunnels are now deep & appear to go back at least 1 or 2 feet into the polygons. The runways are now well used and are prominent features of the tundra landscape.

4 July

-The amount of shredding of the moss is most striking. Most of this work seems to have been done during the winter and now this cut material has turned brown while the new growth & uncut moss is green. In some areas, it is possible to peel up huge masses of shredded moss which have been worked over by the animals. In other areas whole beds of moss & other

Holmes, R.
1960

Lemmus

2.

4 July Iktroavik, Alaska

across on the top / polygons have been torn & chewed up so that the surface of the ground is in shambles. It is no wonder that the insect population is disturbed by the lemming's activities.

6 July Barrow, Alaska

Reynolds, Warner & I completed a lemming census today which was started last evening. This was two 1000' x 50' plots adjacent to Trough 7 and 8. The lake was similar to the trough lake & has been recirculated & heated by Reynolds.

9 July Iktroavik, Alaska

While running the plot last evening & today, it was noted that numerous dead & partially eaten lemming carcasses can now be found. I would guess that in my wandering on the 100' Albers, I have seen 30-40 carcasses & of course, there are many I must have missed. These are apparently frozen hills where the birds have eaten just the viscera or sometimes a part of the body.

Holmes, R.
1960

Lemmus

3

9 July Iktroavik, Alaska

There seems to be a very noticeable lack of water this year on the tundra. Most of the shallow ponds have dried up & the polygons & ridges are bone-dry. It is even possible to sit on the mounds of moss without getting wet; this was impossible last year. It seems probable that the cut grass allows the water to soak into the soil with little retention at the surface. Also with the good weather we have had, the water has evaporated rapidly, leaving little water left. This seems to be another important aspect of the lemming on the tundra.

13 July Barrow, Alaska

The lemmings are still present but are not seen frequently. The majority of the ♀♀ now seem to be pregnant, so there should be a good reproduction in the population in a few weeks. Jaegers are still plentiful and are taking a fair number of lemmings. Mohr reports that sex ratios in the lemming carcasses at his present

Holmes, R.
1960

Lemmings

4.

13 July Barrow, Alaska

nests are now in favor of the ♀♀. We have not been checking the trap-line animals, so I am not sure of our ratio there. It seems likely (?) that many of the ♂♂ have been removed during the east period, and thereby shifting the ratio towards the ♀♀.

15 July - A census was taken today, parallel with trapline I & A+B. The animals were dug out, etc., but few were found (see Wams for results). One nest was located & it contained 8 young which must have been 8-10 days old. Several other old nests were found. These may have been used last year or even 4 years ago.

17 July Barrow - Ikroavik, Alaska

The trap line takes has fallen off during the last several days; however, the differences in habitat may account for this.

21 July Barrow - Ikroavik, Alaska

Several young juveniles were seen today on the census plot, and fresh digging was noted. The effect of the lemmings on the

Holmes, R.
1960

Lemmus

5.

21 July Barrow - Iktroovik, Alaska

moss seems to be primarily a winter or early melt-off phenomena. The moss patches are rarely touched now; however, it is still possible to see where they had been cut into, often just a notch too into the moss - for the reason of feeding. It seemed like more animals were seen today during the census than during the past two weeks. Maybe with the young weaned & the ♀ now more active, there are more animals to be seen.

23 July Meade River, Alaska

The natives at the coal mine said that mice were fairly common this year, but from looking at the tundra, I don't believe that the microtine density was very high. There were no runways to be seen, no cut grass, no pellets even when the ground was closely examined. One lemmus was caught, & this was the only animal seen during our three hour stay at the Coal Mine.

Holmes, R.
1960

Lemmus

6.

25 July Barrow, Alaska

Juveniles are now being seen quite commonly, especially in the trough where the cut grass has accumulated and where there are covered tunnels. The adult animals are still being seen, but not as common as before. Lemming activity on the ridge now seems to be confined to the areas of polygons and very few are now seen along the ridge top. Animals are still present in the marshes, especially in areas where there are ^{now} dead grass. In the areas where there are low polygons with troughs 1-2 feet deep which are covered with cut grass the lemmings sign is the best, and usually lemmings can be caught there.

Predation is still extremely important, since now that the jaeger and owl chick are getting to be good size, they are requiring more & more food. Of course, the adults are still here too, so the impact of

Holmes, R.

1960

Lemmings

7.

25 July Barrow, Alaska

predation is still quite high.

26 July Iktroovik, Alaska

lemmings appeared to be quite common in the vicinity of my census plot. Areas there have a topography such that there are troughs of moderate depth which have accumulated a pile of dead-cut grass. In these grass layers, there are numerous holes and runways - in fact the areas appear riddled. It was possible today to walk through these troughs and scare up many juvenile lemmings & several adults. This was especially true in the southern half of the plot (Stake 10.0 - 25.0). In other locales, this abundance was not noted, but also, these other areas were not walked through.

29 July Barrow, Alaska

No lemmings nests were found on the marsh this afternoon & none have been reported (except by J.R. - see Reynolds notes).

Holmes, R.
1960

Lemmings

8.

3 August Barrow = So Barrow 3, Alaska

Individuals were seen regularly during the trip. Juveniles appeared to be seen more frequently than adults. Sign was good all the way to So. Barrow 3, as was joey & owl densities. Runways are still being heavily used in most areas, but these are becoming localized. That is, there will be a patch of very well used pathways, & burrows in low troughs or polygon-edged & then there may be ^{another} area 20 - 30 feet away. This may be due to habitat preferences or to the effect of predation? - in removing a certain percentage of the lemming population. Weasels are showing up occasionally now. Several have been found in the line plot, and Britton reported a den of weasels in Britton's Area (about 2 weeks ago). Another lemming predator, the arctic fox (1) was seen today South of Low Lake. This is the (2nd) seen Barrow this year (?). (reported)

Helmes, R.
1960

Lemmus

9

6 Aug Barrow, Alaska

Near Ikroavik today, good lemming sign was observed. Many of the runways are well used, and usually can be traced to the burrows which are in use. The animals are seen frequently - most of these being juveniles. The tundra is still dry and most of the puddles have dried up. Only the larger ponds are still in existence. The lemmings have utilized the drained troughs and many of the runways are located here. No lemming nests have been noted recently, & most of the ♀♀ huddled have already dropped their litters.

12 Aug

Barrow = Ikroavik, Alaska

During the last 3 days, we have had a terrific rain which has flooded much of the tundra. Many of the runways are now underwater, and accordingly some of the burrows are filled with water. We have seen a little bit of freezing water also, but not enough to cause any

Holmes, R.
1960

Lemmus

12 Aug Barrow, Alaska

The holes? etc. No surface nests have been located recently.

15 Aug Barrow = Ikroavik, Alaska

Lemmings still seem to be relatively common near the lake, and the runways + burrows are still well used. The traplines are holding up amazingly well + prospects look good for a fairly high population later in the fall.

21 Aug Barrow = Ikroavik, Alaska

The traplines are still doing well. The animals seem to be more active in the dark period, since much greater numbers are caught over night. They are still seen frequently, however, during the day. The predators are still present in large numbers, especially the jaegers since both adults + in many cases two juveniles are living of the territory. Owls have become more inconspicuous and are seen only occasionally. Many of the polygonal areas show excellent lemming sign. Some of the runways which were used in the spring

Holmes, R.
1960

Lemmus

21 Aug Barrow = Ikroavik, Alaska

have been abandoned; others are still in use, and these are very noticeable and are well-travelled. Many of the runways are still in among the cut grass + are \therefore invisible when looking at the tundra. No new nests have been noted, + the old winter nests are usually so wet that they are now used. Pieper + Willen believe that the animal damage to the vegetation is about even with the rate of production of the vegetation. This is only an estimate made by observation. Willen reported seeing an area that had recently been disturbed by lemming activity.

30 Aug Barrow, Alaska

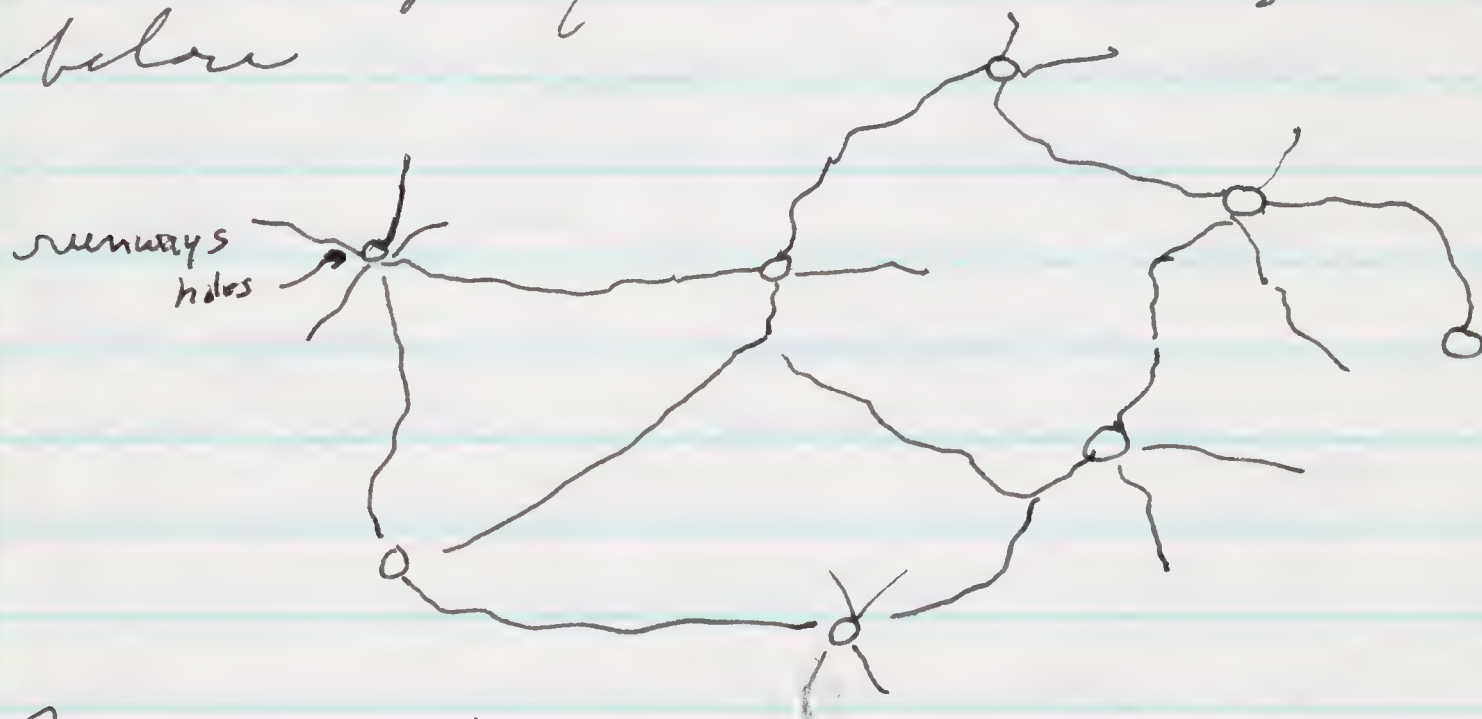
Nothing has been especially noted during the last week. Most of the time in the field has been spent in Central Marsh, the fertilized plots + areas in between. One area in the old lake bed at the upper end of Wohlsehby Slough has mossed + grass sections

Holmes, R.
1960

Lemmus

30 Aug Barrow, Alaska

in rows. These areas are riddled with lemming runways, holes, etc, and animals have been seen rather commonly. Runways are still in use; there are still localized however. A general pattern was noted today near the fertilizer plots. This is diagram below



There are holes with 1 or 2 well-used runways. These then may lead to other holes 15 to 30 feet away from where other runways take off.

Holmes, R.
1961

Lemmus

3 June → 16 June Barrow, Alaska

- See journal notations

17 June Barrow, Alaska

The lemmings sign looks good but all is from last year. Only about 4 have been seen in the last two weeks; 2 of these were brought into Mullen.

Occasional dead animals have been found; those in good condition were given to D. A. M. Others appeared to be remnants of last year's jagged or owl activity. Scattered bits of fur are seen, but these appear to be disintegrated jagged pellets. A dead weasel was found N. of Voth's area - but it may have died last fall. - It was just laying out on a bare ridge - in a slight trough.

The number of lemming winter nests is quite amazing. They are more frequent near Ikroavik where nearly every fringe of depression has 1 or more. Some of these are still intact - including the entrance hole on the side. Others are a bit more dilapidated. All have been ground & only 2 have contained lemming remains - estimated # of nests checked - 150+. (at least, had

Helmer, P.
1961

Lemmings

17 June Barrow, Alaska

That there are more nests this year than last - which seems absurd. If this is the case, the lemmings must have lived for awhile under the snow.

The animals from the village have stocked off, so apparently they are giving out there too.

20 June Barrow → Iktroavik, Alaska

One seen near Voth's area, as we headed to Iktroavik; it was caught + killed. Some mullen is at Pitt Point to where we were just heading south to the lake.

24 June Barrow, Alaska

activity is still poor - very little fresh workings have been detected because of the difficulty in separating sev. day old pellets from yr. old pellets. Predator activity has declined. No *Pomarine* were seen today - but there were a few long-t. + porcupines in the vicinity. A fox was seen hunting near Oolipik Slough.

24 July Barrow, Alaska

None seen during the last month. Jay activity has declined, but weasels have been reported (see FAP-JOS)

Of 14 winter nests in the B.R. - 10 are empty - 5 had weasel signs.

Holmes, R.
1961

Lemmus

26 July Barrow, Alaska

of 8 nest checked in 50 yds - 4 had weasel-
destruction signs

Holmes, R.
1963

Lemmus

27 May Barrow, Alaska

Peiper & I visited Beach Ridge - where we saw no fresh lemming sign - although one or two Pom. Jaegers were seen along the south part of the ridge. Along the North shore of Wohlseh Slough & the west shore of Elson, localized areas of lemming activity were found. Most of the cutting was along the runway systems & large areas of ^{no animals seen} uncut vegetation were most noticeable.

28 May The drum area shows extensive cutting - not only at sides of runways but also in polygon types. 6 animals (all large except 1 - J-SA size) were seen - darting under the snow cover.

From Britton's area - to wind plot to valley slough, considerable sign was seen - some places it was extensive - all the vegetation being cut - while in other spots - the cutting was only along the runways. In general, the cutting was more spotty - with large areas not touched. Several animals were seen during the afternoon.

Little activity evident between Wohlseh & Ookpek sloughs - 1 animal seen - 2-3 jaegers hunting in the area. Beach Ridge near gasoline had some cut vegetation but is not completely exposed yet.

Holmes, R
1963

Lemmings

2

1 June Barrow, Alaska

As snow is melting from troughs, more & more lemming sign is becoming visible. Many troughs are riddled by runways & the vegetation is cut. Again, there are somewhat patchy or localized but there appears to be moderate animal activity. Occasionally white-bellied lemmings are seen - scurrying under a snow or along the edge of a snow bank. Only 4 winter nests have been found, all were empty & contained no sign of production, etc.

4 June In the last two days - only 2 or 3 lemmings have been seen in the field - fewer than in the preceding days.

8 June Mountain is becoming exposed now & the amount of lemming activity can be better assessed. There are large areas (many acres) with no sign; other localities, like Ikroavik - Village along bluff - are heavily cut & of several winter nests were seen as well as 4 lemmings. Again, lemmings seem to be distributed sporadically - in local areas. Bear mounds show little activity - but areas with more polygons & troughs seem to have more.

Holmes, R
1963

Lemmus

9 June Barrow, Alaska

One (heaviest) concentration (by cut vegetation) located - north shore of Oolivil Sound - The area covering 500 yds x 50 yds - had its vegetation 80-85% cleared. No animals were seen but perhaps 1 or 2 were present in the vicinity.

10 June Checked 8 nests today - none were unusual - all mod 1 grass in centres were pile of plants - no sign of weasel predation.

11 June Good sign (cut grass, well-used runways, burrows, etc - on bluff - west of Vok creek - across Capeate Road from Tiger ~~III~~ A-B.

15 June Sign on Ikroavik Census Plot - is extensive - perhaps 35-40% cut vegetation, good runways - 1 animal seen.

17 June Checked 11 winter nests on the census plot today - nothing unusual was found - Nests are plentiful - average 1 about 1/2 acc. (estimates). Several animals seen in the plot today.

21 June 24 nests checked - nothing unusual. - Ikroavik

25 June 16 more nests checked - plot - nothing new

30 July Three seen during 7 1/2 km - Ikroavik plot - but in general, they seem to be getting scarce. Perhaps, the young will be showing up soon.

RTH
1963

Lemmings

4.

20 July Barrow, Alaska

Scattered individuals - most of which seemed to be sub-adults. were seen on the Ikroavik census plot. - This area also has good lemming sign - i.e. freshly formed runway holes - which are currently being used. Fresh digging areas evidence.

6 Aug lemming sign was good on the Ikroavik census plot - well used runways & holes, fresh feces, etc. 9 J-S.A. were caught & transported back to lab for J. Johnson. - but none were seen until the burrows were stepped on - i.e. little surface activity.

12 Aug Checked area between Wahlshlog & Oolpik Sloughs - with J. Johnson - saw two juveniles & caught 1 sub-ad. - fair amount of activity - or at least sign - but animals were hard to find.

25 Aug Sign has not increased noticeably during August. Animals have been seen infrequently - usually in areas where runways are showing sign of use - i.e. there is sign where animals are & the general absence of sign indicates a low pop.

Predators - Poon. J. still hunting on tundra - few owls present.

Holmes, R.T.
1964

Lemmings

- 4 June Barrow, Alaska
Local pockets of lemmings were found - on
south shore of Wohlsehlag + in center
marsh. 2 driving to Oolpik + E Isalag -
saw 14 animals for weasel. Many are
short little or no cutting but others
are improved. - also predator sign -
good at Nestline.
- 5 June
Sign good on Voth's Bluff - ^{2 seen} but elsewhere
I went not much evidence [Harry
Broer report lemmings abundant south of the
Village - altho only a few were seen at
Meach River where he visited last week].
- 8 June
Saw 1 seen this pm near HBS - most
along the raised mounds to the west of
the buildings. Numerous tunnels are
noted - it was - most are not
new - but evidently were
during the winter.
- 10 June
Most extensive cuttings so far - found in Voth's area
where all of the troughs have been heavily
worked by lemmings. - but only 1 seen.
Also - several large (20 x 40') patches of cut
grass is present - Voth's bluffs. ²⁶
Winter nests checked today - with no evidence
of predation - mostly 1 young, etc.
- 11 June
5 seen on or near head ridge. Predators have
decreased in last sev. days.

RTH
1964

Lemmings

20 June Barrow, Alaska

Not many seen in the last several days - but frequent
diggings are now seen where burrows are being
made &/or repaired & fresh dirt is thrown to
the surface.

Holmes, R.
1960

Alopex lagopus

3 August Barrow = So. Barrow 3, Alaska

One immature seen a couple (?) of miles south of Loon Lake. The pelage was brownish with light areas (making it appear blotchy). The ears were noticeably small & rounded.

Holmes, R.

1960

Mustela ruxosa

11 July Barrow, Alaska

A weasel den found on the beach ridge in the middle of Pitelka's Plot, yesterday. Today when it was visited, only one individual was seen & photographed (see journal for description).

21 July - At least 1 weasel was still present at the mound. It is hard to estimate the overall effect of predation - some of the mounds are quite deep. The animals will, however, come out & take a look whenever we are close to the mound. Another den was reported by Britton. It is located in Britton's Area (see Maher for detail).

2 Aug - No weasels seen at the mound or the beach ridge.

See Warner's Note for weasels, compare the line plot.

R. Holmes
1963

Mustela rixosa

28 June Barrow, Alaska

one small adult (F.) seen in burrowsystem in
flood-typed polygon 101 rd south of south
salt lagoon.

